PB86-208360

Global Atmospheric Background Monitoring for Selected Environmental Parameters BAPMoN Data for 1981: Volume 2. Precipitation Chemistry, Continuous Atmospheric Carbon Dioxide and Suspended Particulate Matter

(U.S.) Environmental Monitoring Systems Lab.
Research Triangle Park, NC

Prepared for

United Nations Environment Programme, New York

Jun 85

U.S. Department of Commerce
National Technical Information Service
NTIS

TECHNICAL REPORT DATA

(Please read Instructions on the reverse before completing)

1. REPORT NO. EPA/600/4-85/015	2.	3. RECIPIENT'S ACCESSION NO. PB86 208360/AS
4. TITLE AND SUBTITLE GLOBAL ATMOSPHERIC BACKGROUND MONITORING FOR SELECTED ENVIRONMENTAL PARAMETERS--BAPMoN DATA FOR 1981: Volume II. Precipitation Chemistry, Continuous Atmospheric Carbon Dioxide & Suspended Particulate		5. REPORT DATE June 1985
		6. PERFORMING ORGANIZATION CODE
7. AUTHOR(S) Matter		8. PERFORMING ORGANIZATION REPORT NO.
9. PERFORMING ORGANIZATION NAME AND ADDRESS Environmental Monitoring Systems Laboratory Research Triangle Park, NC 27711		10. PROGRAM ELEMENT NO.
		11. CONTRACT/GRANT NO.
12. SPONSORING AGENCY NAME AND ADDRESS ENVIRONMENTAL MONITORING SYSTEMS LABORATORY OFFICE OF RESEARCH AND DEVELOPMENT U.S. ENVIRONMENTAL PROTECTION AGENCY RESEARCH TRIANGLE PARK, NC 27711		13. TYPE OF REPORT AND PERIOD COVERED
		14. SPONSORING AGENCY CODE EPA/600/08

15. SUPPLEMENTARY NOTES

16. ABSTRACT

This report is the seventh in series reporting precipitation data from stations participating in the World Meterological Organization's network. The report consists of tables of raw data received from network sites around the world. A description of the system used to collect the data is also presented.

17. KEY WORDS AND DOCUMENT ANALYSIS

a. DESCRIPTORS	b. IDENTIFIERS/OPEN ENDED TERMS	c. COSATI Field/Group

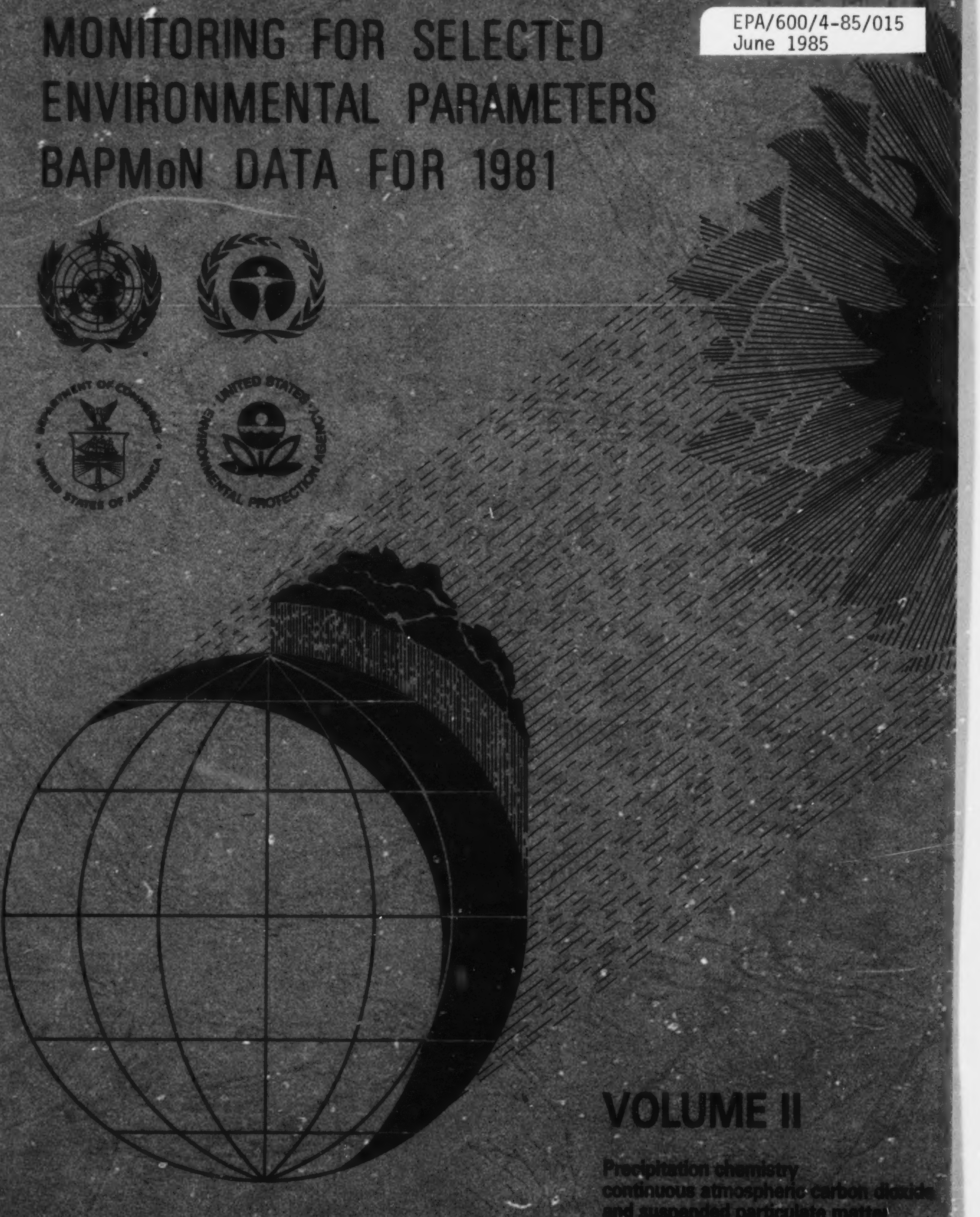
18. DISTRIBUTION STATEMENT RELEASE TO PUBLIC	19. SECURITY CLASS *(This Report)* UNCLASSIFIED	21. NO. OF PAGES
	20. SECURITY CLASS *(This page)* UNCLASSIFIED	22. PRICE

EPA Form 2220-1 (9-73)

PB86-208360

GLOBAL ATMOSPHERIC BACKGROUND MONITORING FOR SELECTED ENVIRONMENTAL PARAMETERS BAPMoN DATA FOR 1981

EPA/600/4-85/015
June 1985



VOLUME II

Precipitation chemistry
continuous atmospheric carbon dioxide
and suspended particulate matter

REPRODUCED BY
NATIONAL TECHNICAL
INFORMATION SERVICE
U.S. DEPARTMENT OF COMMERCE
SPRINGFIELD, VA. 22161

WMO/TD No. 47

EPA/600/4-85/015
June 1985

GLOBAL ATMOSPHERIC BACKGROUND MONITORING FOR SELECTED ENVIRONMENTAL PARAMETERS

BAPMoN DATA FOR 1981

VOLUME II

PRECIPITATION CHEMISTRY, CONTINUOUS ATMOSPHERIC CARBON DIOXIDE AND SUSPENDED PARTICULATE MATTER

PREPARED BY
ENVIRONMENTAL MONITORING SYSTEMS LABORATORY
ENVIRONMENTAL PROTECTION AGENCY
RESEARCH TRIANGLE PARK, NC 27711

A joint publication of the World Meteorological Organization, the
US Environmental Protection Agency and the
US Department of Commerce/National Oceanic and Atmospheric Administration,
in co-operation with the United Nations Environment Programme
(Global Environmental Monitoring System)

A contribution to the Global Environmental Monitoring System

June 1985

TABLE OF CONTENTS

ABSTRACT ii

INTRODUCTION 1

SECTION I - Atmospheric Constituents

Background I-1

Standardized Coding and Data Reporting I-1
  a. Station Coding I-3
  b. Parameter and Analytical Method Coding I-3
  c. WMO Data Forms I-3

Precipitation Reference Laboratory. I-16

Precipitation Chemistry Data Description I-17

Continuous CO_2 Measurement I-18

Suspended Particulate Matter. I-19

References I-20

Appendix A - World Meteorological Organization:
A List of Contacts with Addresses IA-1

Appendix B - World Meteorological Organization:
BAPMoN Expansion IB-1

Appendix C - Explanation of Statistical Terms IC-1

Appendix D - Brief Summary of Analytical Methods
for Selected Parameters ID-1

SECTION II - Data Tables . . . . II-i

A. Monthly Precipitation Chemistry Data Table Index . . . . . IIA-i
B. Weekly Precipitation Chemistry Data Table Index . . . . . . IIB-i
C. Carbon Dioxide Data . . . . IIC-i
D. Suspended Particulate Data . . . . IID-i

FIGURES

1 Sample WMO Site Identification Form I-4
2 Sample WMO Monthly Precipitation Data Reporting Form I-8
3 Sample WMO Event Precipitation Data Reporting Form I-9
4 Sample WMO Hourly Data Reporting Form I-10
5 Sample WMO Daily Data Reporting Form I-11
IC.1 Normal Distribution Curve IC-2
IC.2 % of Samples Less Than Stated Micrograms Per Cubic Meter IC-4

TABLES

1 Station Codes I-12
2 Common Parameters and Methods I-15
Monthly Precipitation Chemistry Data Table Index . . . . IIA-i
Weekly Precipitation Chemistry Data Table Index . . . . IIB-i

ABSTRACT

This report is the seventh in a series of annual reports covering precipitation data at BAPMoN sites around the world. The intent of the report is only to present the BAPMoN wet deposition data for 1981. No interpretation or comparisons are made. The data included comes from 30 countries and 95 sites within participating countries. Also presented is a description of the input forms used in transferring the data from the participants to the WMO Collaborating Data Center.

INTRODUCTION

Global Parameters Background Monitoring for Selected Environmental Parameters-BAPMoN Data for 1981 - is sponsored by the World Meteorological Organization (WMO) and the UNEP Global Environmental Monitoring System (GEMS) in cooperation with the U.S. National Oceanic and Atmospheric Administration (NOAA) and the U.S. Environmental Protection Agency (EPA). The publication presents data produced from observational records submitted from stations in the WMO Background Air Pollution Monitoring Network (BAPMoN), and includes data from additional cooperative stations. The BAPMoN stations operate according to several resolutions of the WMO Executive Council. The WMO network includes the following three categories of stations:

1. Baseline Air Pollution Stations. These stations are located in areas where no significant changes in land use are anticipated for at least 50 years within several 100 km in all directions from each station - and carry out a rather sophisticated program.

2. Regional Air Pollution Stations perform a simple observation program. The siting of these stations folllows in principle the same requirements as needed for baseline stations but is less critical than that of the baseline stations. Regional stations should be located away from major urban centers. An additional criterion is that the stations be expected to have sufficient longevity as to provide representative trends in regional values of turbidity and precipitation chemistry.

3. Regional Stations with Extended Programs. These regional stations carry out more than the minimum program. In addition to meeting or exceeding the criteria for a regional station, they should be located in a remote area (preferably mountainous) and not be influenced by any pollution sources within a 100-km radius.

Initially, only turbidity data were processed and published; the annual publication began in 1971, known as Atmospheric Turbidity Data for the World. As precipitation chemistry data were added, the 1972 publication name was changed to Atmospheric Turbidity and Precipitation Chemistry Data for the World. In 1975, with the addition of flask sample carbon dioxide data, the title became Global Monitoring of the Environment for Selected Atmospheric Constituents. Finally, in 1978, when continuous carbon dioxide data and suspended particulate data were added, the publication title was changed to Global Atmospheric Background Monitoring for Selected Environmental Parameters-BAPMon Data. Beginning with the 1981 publication, the atmospheric constituents of precipitation chemistry, continuous carbon dioxide and suspended particulate matter are separated from the turbidity and flask carbon dioxide data.

The aim of the WMO, through its air monitoring program, is to determine current levels of atmospheric pollution and, more importantly, to identify long-term trends in the concentration of significant constituents which may affect the environment sufficiently to induce climatic changes. This publication presents the results of the air monitoring program as reported by participating member countries. The tables contain contributed world-wide precipitation chemistry data, continuous atmospheric carbon dioxide measurements, and suspended particulate data.

SECTION I

ATMOSPHERIC CONSTITUENTS

BACKGROUND

In 1974 the Environmental Protection Agency's (EPA) Environmental Monitoring and Systems Laboratory (EMSL), Research Triangle Park, North Carolina, was designated by the World Meteorological Organization (WMO) as the "Collaborative Center on Background Air Pollution Data."

A list of the expected participants on the Background Air Pollution Monitoring Network (BAPMoN) was furnished EPA, and contact was established through correspondence. Each country has given the responsibility for operating its monitoring network to a single organization in which one person is the point of contact with EPA for all matters pertaining to transmittal of data and the provision of supporting information. A list of these organizations and the name of the responsible person contacted for this publication is provided in Appendix A. Growth of the BAPMoN is shown in Appendix B.

STANDARDIZED CODING AND DATA REPORTING

When EPA became involved as the Collaborating Center on this activity, a "WMO Precipitation Data Coding Guide" was developed and sent to all WMO Member countries. The Coding Guide describes in detail the formats and procedures to follow for the reporting of precipitation chemistry data. Some of these formats and procedures are also suitable to report data other than precipitation chemistry. A revised Coding Guide (available also in French and Spanish) was prepared in 1981, and it included constituents which since 1978 are included in the minimum monitoring program of the BAPMoN, i.e., suspended particulate matter (SPM) and carbon dioxide (CO_2). The resulting analytical data are entered on the proper forms which are provided by the WMO. The completed data forms are transmitted to the National Climatic Center (NCC)* in Asheville, North Carolina, U.S.A. At the NCC, the atmospheric constituents data are separated from the turbidity data, and are then forwarded to the Collaborating Center at Research Triangle Park, North Carolina, where they are sorted for future retrieval, analysis and processing. The processed data are sent to WMO together with a draft of the text for editing prior to publication.

All countries known to operate background air pollution monitoring stations, or thought to be establishing such stations in the future, were contacted by letter with requests for two items of information: (1) a site description for each precipitation collection station, and (2) a write-up of the chemical methods used to analyze the samples. The site description (Figure 1) gives detailed information about the site at which the samples are taken. Write-ups of the analytical methods define in detail the procedures used in obtaining the reported values. Data are transmitted on the WMO Data Forms, explained in Part C.

---

*Note: In November 1982, the official title of the National Climatic Center (NCC) was changed to the National Climatic Data Center (NCDC).

a. Station Coding

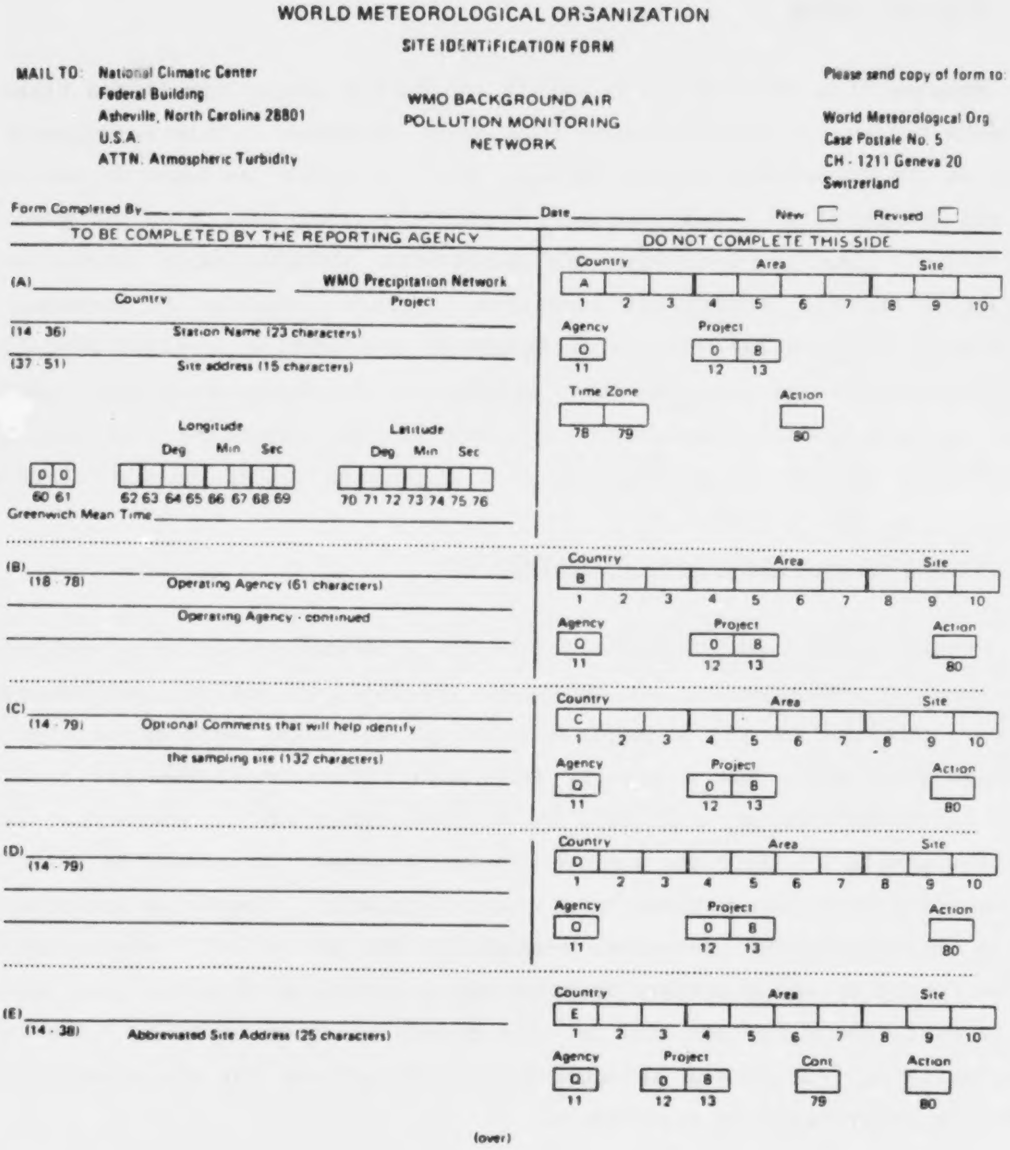
Results from those stations within the United States are listed first in the data tables, followed by data from other countries. This arrangement is based on the difference in site coding. The U.S. codes, as found in the Storage and Retrieval of Aerometric Data (SAROAD) system, have been assigned for many years. Station locations are designated alphabetically within their respective states. Coding for locations in other countries is according to the Federal Information Processing Standards Publication 10 (FIPS Pub. 10-2, 1977) which utilizes two alphabetic characters for designating each country. Table 1 shows station identification codes for all reporting stations, even though some failed to qualify by not reporting other needed material.

b. Parameter and Analytical Method Coding

Precipitation chemistry data tables are separated by parameter and method of analysis. For example, for countries reporting values for calcium (parameter = calcium) in wet precipitation, five different methods of chemical analysis were used. As a result, five data tables are shown for calcium. There is no information available by which analyses of the collected precipitation sample by different methods can be compared. Care must be exercised in comparing different methods for a single parameter. Countries are expected to use exclusively the procedures recorded in WMO No. 491. Some countries may be forced to use alternate methods due to technical difficulties. A list of the most common methods used in this report is shown in Table 2. A brief description of some of the selected analytical methods for wet precipitation chemistry is provided in Appendix D.

c. WMO Data Forms

A short description of the standardized package of data forms used in processing information from the BAPMoN is presented. For a more complete discussion of the forms, refer to WMO - No. 491 "International Operations Handbook for Measurement of Background Atmospheric Pollution," Geneva, Switzerland, 1978. All forms presented here are reduced versions of the regular forms. For reporting purposes, the regular forms are all available from WMO Headquarters in Geneva, Switzerland, as well as a Data Coding Guide.



WORLD METEOROLOGICAL ORGANIZATION

SITE IDENTIFICATION FORM

MAIL TO: National Climatic Center
Federal Building
Asheville, North Carolina 28801
U.S.A.
ATTN. Atmospheric Turbidity

WMO BACKGROUND AIR
POLLUTION MONITORING
NETWORK

Please send copy of form to:

World Meteorological Org
Case Postale No. 5
CH - 1211 Geneva 20
Switzerland

Form Completed By__________ Date__________ New ☐ Revised ☐

TO BE COMPLETED BY THE REPORTING AGENCY | DO NOT COMPLETE THIS SIDE

(A)__________ Country
WMO Precipitation Network — Project
(14 - 36) Station Name (23 characters)
(37 - 51) Site address (15 characters)

Longitude: Deg Min Sec — ☐☐☐☐☐☐☐☐ 62 63 64 65 66 67 68 69
Latitude: Deg Min Sec — ☐☐☐☐☐☐☐ 70 71 72 73 74 75 76
0 0 — 60 61
Greenwich Mean Time__________

Country / Area / Site: A ☐☐☐☐☐☐☐☐☐ — 1 2 3 4 5 6 7 8 9 10
Agency: O — 11
Project: 0 8 — 12 13
Time Zone: ☐☐ — 78 79
Action: ☐ — 80

(B)__________
(18 - 78) Operating Agency (61 characters)
Operating Agency - continued

Country / Area / Site: B ☐☐☐☐☐☐☐☐☐ — 1 2 3 4 5 6 7 8 9 10
Agency: O — 11
Project: 0 8 — 12 13
Action: ☐ — 80

(C)__________
(14 - 79) Optional Comments that will help identify
the sampling site (132 characters)

Country / Area / Site: C ☐☐☐☐☐☐☐☐☐ — 1 2 3 4 5 6 7 8 9 10
Agency: O — 11
Project: 0 8 — 12 13
Action: ☐ — 80

(D)__________
(14 - 79)

Country / Area / Site: D ☐☐☐☐☐☐☐☐☐ — 1 2 3 4 5 6 7 8 9 10
Agency: O — 11
Project: 0 8 — 12 13
Action: ☐ — 80

(E)__________
(14 - 38) Abbreviated Site Address (25 characters)

Country / Area / Site: E ☐☐☐☐☐☐☐☐☐ — 1 2 3 4 5 6 7 8 9 10
Agency: O — 11
Project: 0 8 — 12 13
Cont: ☐ — 79
Action: ☐ — 80

(over)

Figure 1. Sample WMO Site Identification Form.

SITE IDENTIFICATION FORUM (Continued)

TO BE COMPLETED BY THE REPORTING AGENCY

(F) ______________________________________
(14-54) Sampling Site Address (41 characters)

____
Address, continued

Check the ONE major category that best describes classification of the sampling site.

5 ☐ Baseline Station
6 ☐ Regional Station
7 ☐ Extended Regional Station

Check type of sampling gauge used

1 ☐ Open-collecting wet and dry fallout
2 ☐ Manually Operated

Check type of automatic gauge used

3 ☐ AAPS
4 ☐ ERDA
5 ☐ ERNI
6 ☐ MISCO
7 ☐ WONG
8 ☐ OTHER (specify) ______________________

Diameters of Sampling Orifices (in cm)

National Gauge ______________ Sampling Gauge ______________

Specify
Units ______________________________________
Elevation of sampler above ground

Specify
Units ______________________________________
Elevation of station above mean sea level

____

DO NOT COMPLETE THIS SIDE

Country / Area / Site

F									
1	2	3	4	5	6	7	8	9	10

Agency
Q
11

Project
0 8
12 13

Station Type
☐☐
55 56

Gauge Type
☐
57

National Orifice
☐☐☐☐
58 59 60 61

Sampling Orifice
☐☐☐☐
62 63 64 65

Elevation/Gr
☐☐☐
72 73 74

Elevation/MSL
☐☐☐☐
75 76 77 78

Action
☐
80

Figure 1. (continued)

c.1 Monthly Precipitation Chemistry Data Form

This is the only basic form for reporting monthly precipitation chemistry data (Figure 2). This form accommodates data collected during one month from one sampling station, and all monthly data presented in this publication was reported to the Collaborating Center in this format.

c.2 Event Precipitation Chemistry Data Form

The WMO Executive Committee decided (in 1978) that in order to allow for a better resolution with time of observation and taking into account the effect of individual meteorological episodes, reporting periods shorter than one month would be applied, whenever feasible. The event precipitation chemistry data form is shown by Figure 3. This edition does not contain Event Precipitation Chemistry data.

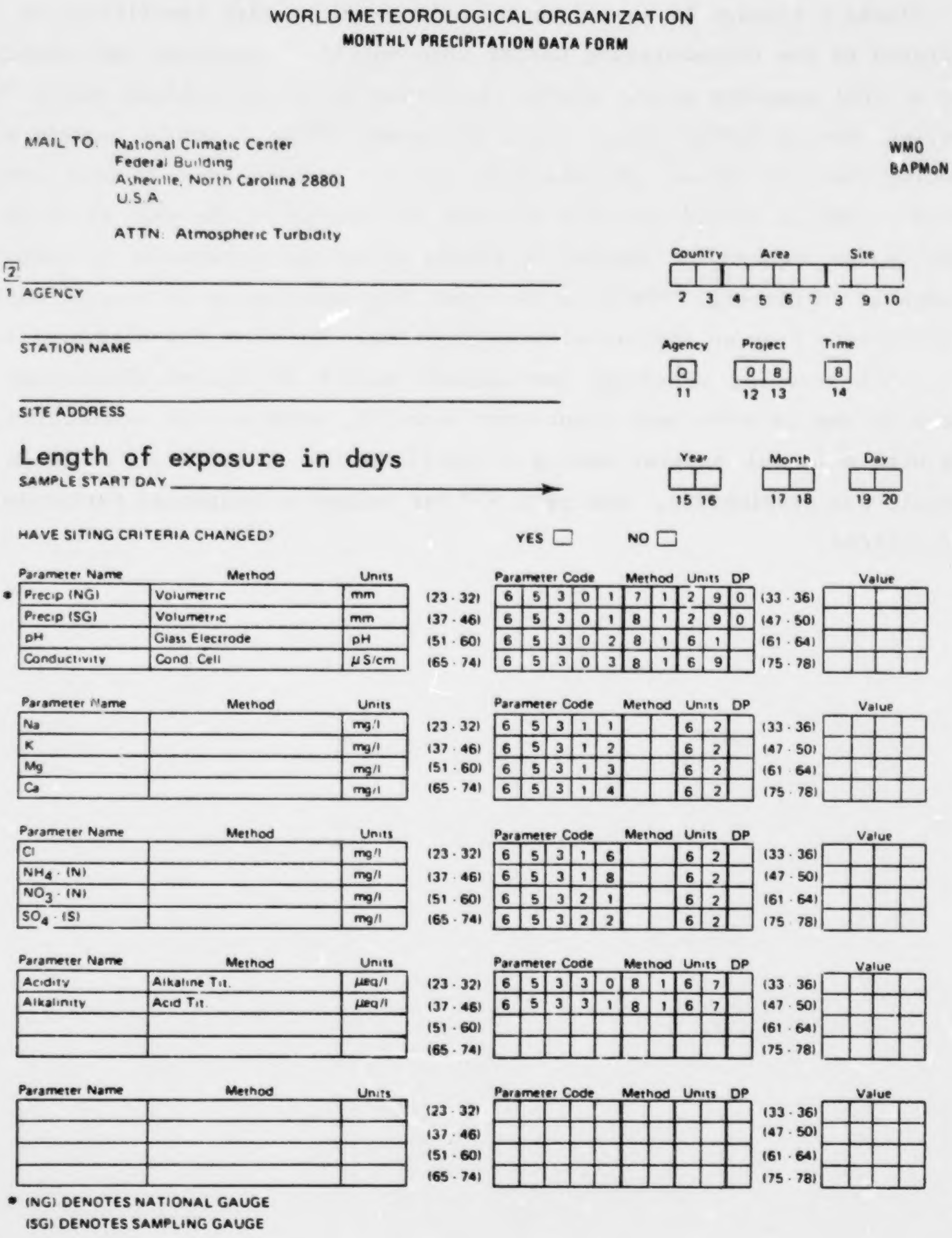
c.3 Hourly Data Form

An hourly data form (Figure 4) exists for parameters which must be reported hourly. All values entered on this form are for the same parameter as shown by heading code (Col. 23-27) on upper part of form. The only difference in heading code here from that used on the usual monthly form is that "day" does not appear in the heading. To record 24-hourly readings using this form, two lines are used. The first line contains 12 readings representing readings from midnight to noon (a.m.). The second line contains values from noon to midnight (p.m.). Start hour (Col 21-22) contains either a 00 or 12 depending on whether the values entered are for a.m. or p.m. Recording data using this form requires two sheets to contain all values for one month for one parameter. The form is used to report CO_2, SO_2, etc. Hourly data reported on the form appear in this edition in part IIC.

c.4 24-Hour (Daily) Sampling Form

The Daily Data Form is shown in Figure 5. The upper left-hand side of the form is designed for the user. The only use of information recorded here would be for ease of handling. However, the information which should be recorded in the blocks at the right hand side of the form is essential for automatic data processing.

Blocks 2 through 10 should contain the sampling site identification code furnished by the Collaborating Center when notified regarding the establishment of that sampling site. Blocks 11 through 13 are preprinted with a "Q08" labeling this as BAPMoN data. Block 14, headed "Time," should contain a "7" denoting that all values on this form are the results of a 24-hour sample. Blocks 15 and 16 should containe the last two digits of the year in which the sampling was conducted. Months in Blocks 17-18 are designated 01 (January) through 12 (December). The form has space for entering up to four parameters or pollutants from an individual sampling site. The form has been preprinted with 11101 denoting suspended particulate matter in Blocks 23 through 27. Blocks 28 and 29 have been preprinted with 75, meaning that collection was made with a hi-vol sampler having a cutoff in the range of 10 to 20 μm and analysis was gravimetric. See part IID for values of Suspended Particulate Matter (SPM).



WORLD METEOROLOGICAL ORGANIZATION
MONTHLY PRECIPITATION DATA FORM

MAIL TO: National Climatic Center
Federal Building
Asheville, North Carolina 28801
U.S.A.

ATTN: Atmospheric Turbidity

WMO
BAPMoN

7 ____________________
1 AGENCY

Country ☐☐ (2 3) Area ☐☐☐☐ (4 5 6 7) Site ☐☐☐ (8 9 10)

____
STATION NAME

Agency 0 (11) Project 0 8 (12 13) Time 8 (14)

____
SITE ADDRESS

Length of exposure in days
SAMPLE START DAY ____________________→

Year ☐☐ (15 16) Month ☐☐ (17 18) Day ☐☐ (19 20)

HAVE SITING CRITERIA CHANGED? YES ☐ NO ☐

Parameter Name	Method	Units		Parameter Code					Method		Units		DP		Value			
* Precip (NG)	Volumetric	mm	(23 - 32)	6	5	3	0	1	7	1	2	9	0	(33 - 36)				
Precip (SG)	Volumetric	mm	(37 - 46)	6	5	3	0	1	8	1	2	9	0	(47 - 50)				
pH	Glass Electrode	pH	(51 - 60)	6	5	3	0	2	8	1	6	1		(61 - 64)				
Conductivity	Cond. Cell	μS/cm	(65 - 74)	6	5	3	0	3	8	1	6	9		(75 - 78)				

Parameter Name	Method	Units		Parameter Code					Method		Units		DP		Value			
Na		mg/l	(23 - 32)	6	5	3	1	1			6	2		(33 - 36)				
K		mg/l	(37 - 46)	6	5	3	1	2			6	2		(47 - 50)				
Mg		mg/l	(51 - 60)	6	5	3	1	3			6	2		(61 - 64)				
Ca		mg/l	(65 - 74)	6	5	3	1	4			6	2		(75 - 78)				

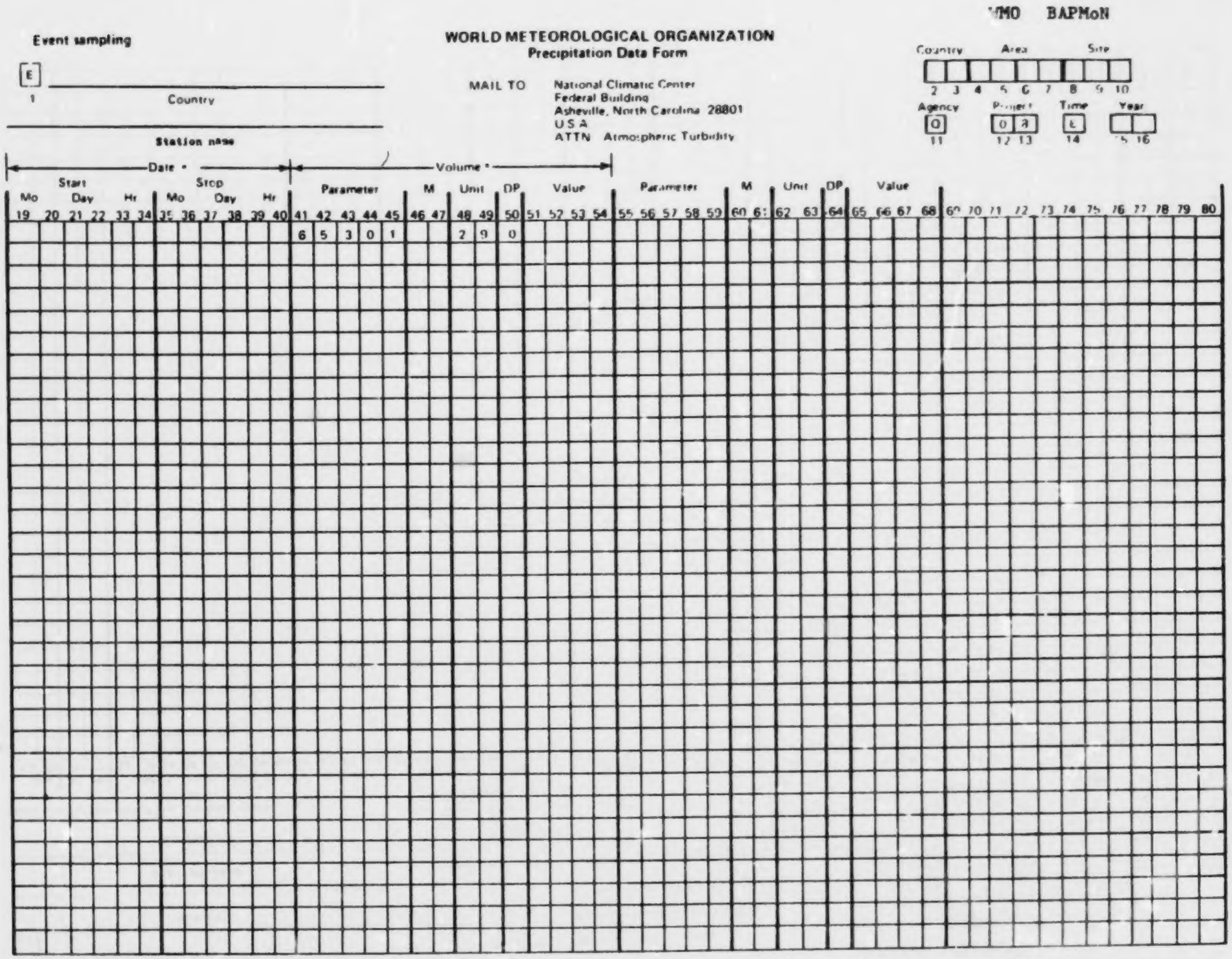
Parameter Name	Method	Units		Parameter Code					Method		Units		DP		Value			
Cl		mg/l	(23 - 32)	6	5	3	1	6			6	2		(33 - 36)				
NH_4 - (N)		mg/l	(37 - 46)	6	5	3	1	8			6	2		(47 - 50)				
NO_3 - (N)		mg/l	(51 - 60)	6	5	3	2	1			6	2		(61 - 64)				
SO_4 - (S)		mg/l	(65 - 74)	6	5	3	2	2			6	2		(75 - 78)				

Parameter Name	Method	Units		Parameter Code					Method		Units		DP		Value			
Acidity	Alkaline Tit.	μeq/l	(23 - 32)	6	5	3	3	0	8	1	6	7		(33 - 36)				
Alkalinity	Acid Tit.	μeq/l	(37 - 46)	6	5	3	3	1	8	1	6	7		(47 - 50)				
			(51 - 60)											(61 - 64)				
			(65 - 74)											(75 - 78)				

Parameter Name	Method	Units		Parameter Code					Method		Units		DP		Value			
			(23 - 32)											(33 - 36)				
			(37 - 46)											(47 - 50)				
			(51 - 60)											(61 - 64)				
			(65 - 74)											(75 - 78)				

* (NG) DENOTES NATIONAL GAUGE
(SG) DENOTES SAMPLING GAUGE

Figure 2. Sample WMO Monthly Precipitation Data Reporting Form



Event sampling

☐E
1

Country

Station name

WORLD METEOROLOGICAL ORGANIZATION
Precipitation Data Form

MAIL TO
National Climatic Center
Federal Building
Asheville, North Carolina 28801
U S A
ATTN Atmospheric Turbidity

WMO BAPMoN

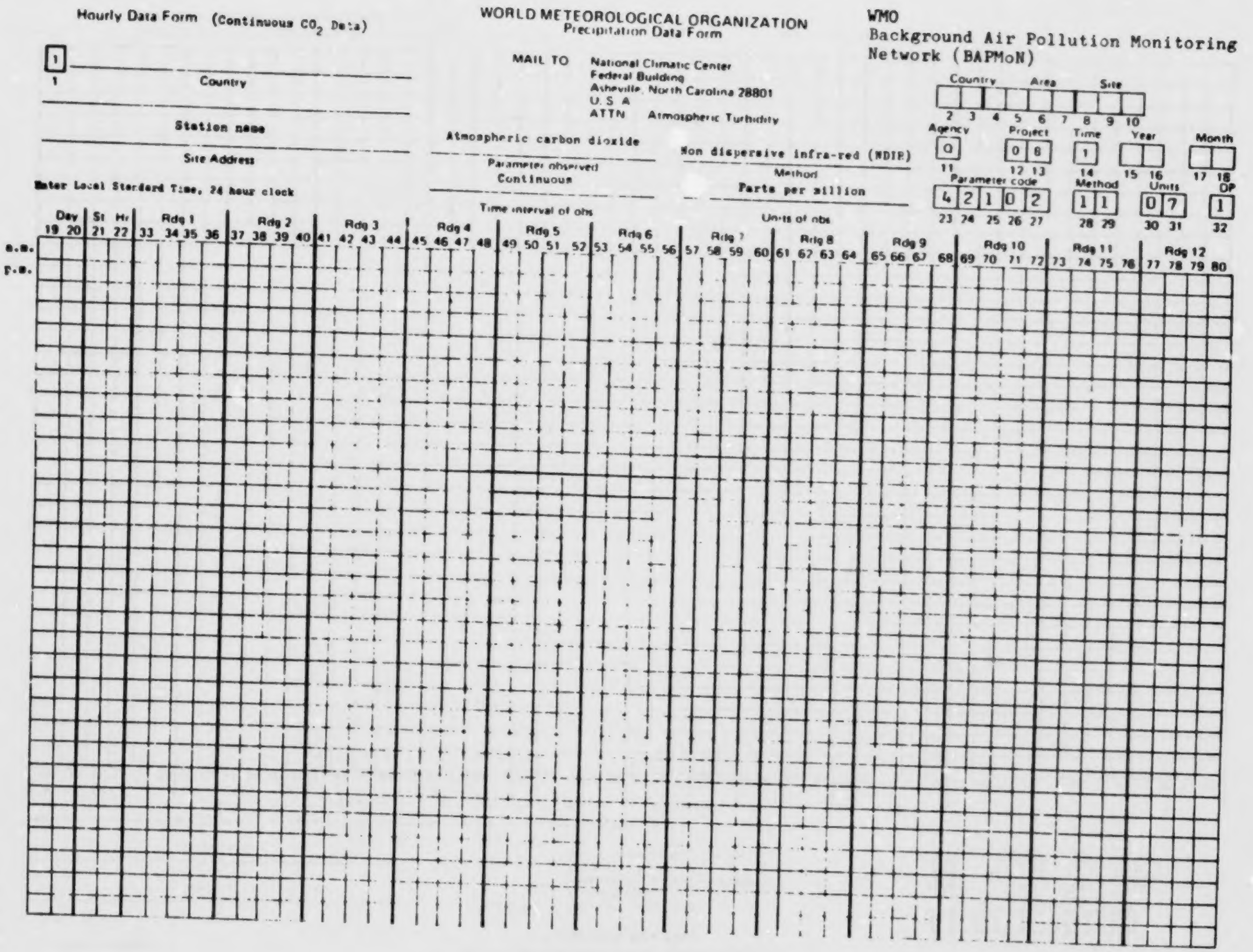
Country ☐☐ 2 3 Area ☐☐☐☐ 4 5 6 7 Site ☐☐☐ 8 9 10
Agency ☐0 11 Project ☐0☐a 12 13 Time ☐L 14 Year ☐☐ 15 16

Date *						Volume *										
Start			Stop													
Mo	Day	Hr	Mo	Day	Hr	Parameter	M	Unit	DP	Value	Parameter	M	Unit	DP	Value	
19 20	21 22	33 34	35 36	37 38	39 40	41 42 43 44 45	46 47	48 49	50	51 52 53 54	55 56 57 58 59	60 61	62 63	64	65 66 67 68	69 70 71 72 73 74 75 76 77 78 79 80
						6 5 3 0 1		2 9	0							

* Dates and volume need only be recorded once for each event
Skip a line on form between separate events

Enter Local Standard Time, 24 hour clock

Figure 3. Sample WMO Event Precipitation Data Reporting Form



Hourly Data Form (Continuous CO_2 Data)

WORLD METEOROLOGICAL ORGANIZATION
Precipitation Data Form

WMO
Background Air Pollution Monitoring
Network (BAPMoN)

1 1 Country

Station name

Site Address

MAIL TO National Climatic Center
Federal Building
Asheville, North Carolina 28801
U.S.A.
ATTN Atmospheric Turbidity

Country Area Site
2 3 4 5 6 7 8 9 10

Agency 0 11
Project 0 8 12 13
Time 1 14
Year 15 16
Month 17 18

Atmospheric carbon dioxide
Parameter observed

Continuous
Time interval of obs

Non dispersive infra-red (NDIR)
Method

Parts per million
Units of obs

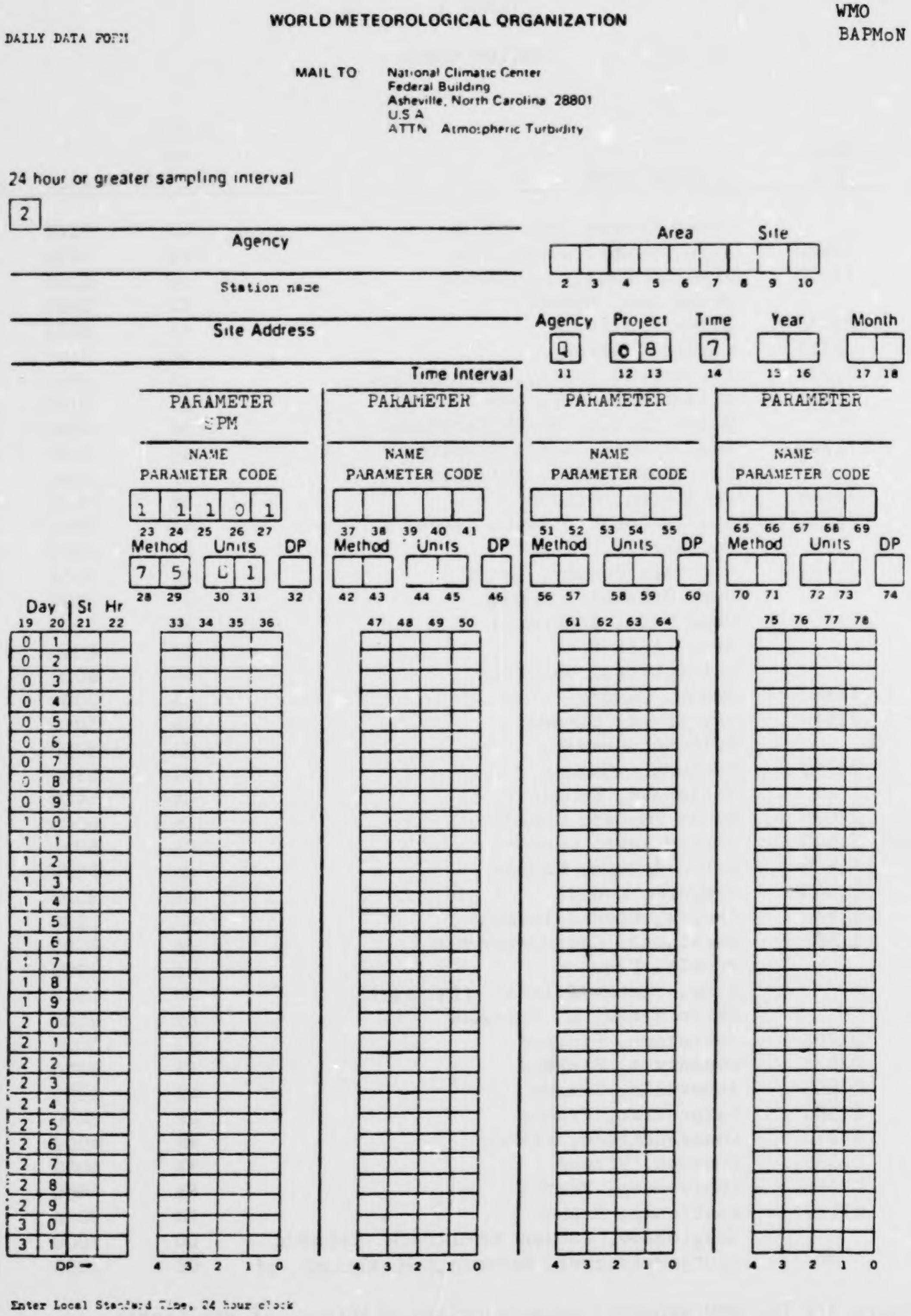
Parameter code 4 2 1 0 2 23 24 25 26 27
Method 1 1 28 29
Units 0 7 30 31
DP 1 32

Enter Local Standard Time, 24 hour clock

Day		St	Hr	Rdg 1				Rdg 2				Rdg 3				Rdg 4				Rdg 5				Rdg 6				Rdg 7				Rdg 8				Rdg 9				Rdg 10				Rdg 11				Rdg 12			
19	20	21	22	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80

a.m.
p.m.

Figure 4. Sample WMO Hourly Data Reporting Form



DAILY DATA FORM

WORLD METEOROLOGICAL ORGANIZATION

WMO
BAPMoN

MAIL TO National Climatic Center
Federal Building
Asheville, North Carolina 28801
U.S.A
ATTN Atmospheric Turbidity

24 hour or greater sampling interval

2 ____________________ Agency

____________________ Station name

____________________ Site Address

____________________ Time Interval

Area						Site		
2	3	4	5	6	7	8	9	10

Agency	Project		Time	Year		Month	
Q	0	8	7				
11	12	13	14	15	16	17	18

PARAMETER SPM	PARAMETER	PARAMETER	PARAMETER
NAME	NAME	NAME	NAME
PARAMETER CODE 1 1 1 0 1 23 24 25 26 27	PARAMETER CODE 37 38 39 40 41	PARAMETER CODE 51 52 53 54 55	PARAMETER CODE 65 66 67 68 69
Method 7 5 (28 29) Units 0 1 (30 31) DP (32)	Method (42 43) Units (44 45) DP (46)	Method (56 57) Units (58 59) DP (60)	Method (70 71) Units (72 73) DP (74)

Day 19	Day 20	St 21	Hr 22	33	34	35	36	47	48	49	50	61	62	63	64	75	76	77	78
0	1																		
0	2																		
0	3																		
0	4																		
0	5																		
0	6																		
0	7																		
0	8																		
0	9																		
1	0																		
1	1																		
1	2																		
1	3																		
1	4																		
1	5																		
1	6																		
1	7																		
1	8																		
1	9																		
2	0																		
2	1																		
2	2																		
2	3																		
2	4																		
2	5																		
2	6																		
2	7																		
2	8																		
2	9																		
3	0																		
3	1																		

DP → 4 3 2 1 0 | 4 3 2 1 0 | 4 3 2 1 0 | 4 3 2 1 0

Enter Local Standard Time, 24 hour clock

Figure 5. Sample WMO Daily Data Reporting Form

TABLE 1

STATION CODES

NCDC NO.	WMO* CODE	STATION NAME	STATE OR COUNTRY	AREA	SITE
-		Grand Canyon Natl. Park	03	0370	001
02350	72480	Inyo County, California	05	3460	001
01150	72462	Alamosa County, Colorado	06	0060	002
13150		Mauna Loa, Hawaii	12	0080	002
19200	72433	Salem, Illinois	13	6920	001
03100	72712	Caribou, Maine	20	0260	001
13250	72234	Lauderdale County, Mississippi	25	1460	001
01500	72407	Atlantic County, New Jersey	31	0080	001
-		Macon County, North Carolina	34	2500	101
18100	72306	Wake County, North Carolina	34	4160	001
-		Cherokee County, Oklahoma	37	0480	001
16150	72688	Pendleton, Oregon	38	1420	001
08150	72654	Beadle County, South Dakota	43	0060	001
-		San Angelo, Texas	45	4560	001
22200	72255	Victoria County, Texas	45	5350	001
03085		Cape Matatula, Samoa	53	0190	001
03050		Cape Grim, Australia	AS	2000	101
		Retz, Austria	AU	8000	101
-		Guletchitza, Bulgaria	BU	8000	101
05040	71881	Edson, Canada	CA	3000	101
06615	71946	Hay River, Canada	CA	5030	101
11200		Kelowna, Canada	CA	5050	101
13040	71722	Maniwaki, Canada	CA	5100	101
-		Mould Bay, Canada	CA	5400	101
13320	71631	Mount Forest, Canada	CA	6000	101
16275	71845	Pickle Lake, Canada	CA	6050	101
19010	71600	Sable Island, Canada	CA	7500	101
23960	71865	Wynyard, Canada	CA	9000	101
-	11916	Chopok, Czechoslovakia	CZ	2000	101
-	11683	Svratouch, Czechoslovakia	CA	8000	101
-		Anholt, Denmark	DA	1000	101
-		Ejde, Faeroe Islands (Denmark)	FO	3000	101
03120		Cerro Verde, El Salvador	ES	2000	101
-	02963	Jokioinen, Finland	FI	5000	101
-	02836	Sodankyla, Finland	FI	9000	101
-	07005	Abbeville, France	FR	1000	101
-	07586	Carpentras, France	FR	3000	101
-	07270	Chateauchinon, France	FR	4000	101
-	07535	Gourdon, France	FR	6000	101
-	07186	Phalsbourg, France	FR	7000	101
-	07119	Rostrenen, France	FR	9000	101
-		Neuglobsow, German Democratic Republic	GC	7000	101
02725		Brotjacklriegel, Germany, Fed. Republic of	GE	2000	101

*Numbers are for WMO synoptic meteorological stations, if applicable.

TABLE 1 (Cont)

STATION CODES

NCDC NO.	WMO* CODE	STATION NAME	STATE OR COUNTRY	AREA	SITE
04220	10615	Deuselbach, Germany, Fed. Republic of	GE	3000	101
12110		Langenbrugge, Germany, Fed. Republic of	GE	6000	101
19425		Schauinsland, Germany, Fed. Republic of	GE	9000	101
-	04218	Godhavn, Greenland	GL	4000	101
-	04390	Prince Christians Sund, Greenland	GL	7000	101
-	12700	Keckskemet, Hungary	HU	7000	101
01235	42475	Allahabad, India	IN	2000	101
10615	42339	Jodhpur, India	IN	4000	101
11430	43339	Kodaikanal, India	IN	4200	101
13287	43369	Minicoy, India	IN	4500	101
13310	42314	Mohanbari, India	IN	5000	101
14010	42867	Nagpur, India	IN	5500	101
16350	43063	Pune, India	IN	6000	101
16655	43333	Port Blair, India	IN	7000	101
19443	42027	Srinagar , India	IN	8000	101
-	43149	Visakapatnam, India	IN	9000	101
22100	39953	Valentia Observatory, Ireland	EI	8000	101
13315	16134	Monte Cimone, Italy	IT	4000	101
19420	16360	S. Maria di Leuca, Italy	IT	7000	101
20700	16429	Trapani/Birgi, Italy	IT	8000	101
22175	16090	Verona, Italy	IT	8500	101
22370	16216	Viterbo, Italy	IT	9000	101
-	47513	Ryori, Japan	JA	9000	101
-	48631	Cameron Highlands, Malaysia	MY	2000	101
-		As, Norway	NO	1000	101
-		Birkenes, Norway	NO	2000	101
-		Kise, Norway	NO	5000	101
-		Suwalki, Poland	PL	8000	101
-		Braganca, Portugal	PO	2000	101
-		Faro, Portugal	PO	5000	101
-		Semenic, Romania	RO	1000	101
-		Semenic, Romania	RO	1000	102
-		Fundata, Romania	RO	2000	101
-		Fundata, Romania	RO	2000	102
-		Turia, Romania	RO	6000	101
-		Turia, Romania	RO	6000	102
-		Rarau, Romania	RO	7000	101
-		Rarou, Romania	RO	7000	102
-		Stina de Vale, Romania	RO	8000	101
-		Stina de Vale, Romania	RO	8000	102
-		Paring, Romania	RO	9000	101
-		Paring, Romania	RO	9000	102
-		Bredkalen, Sweden	SW	1000	101
-		Velen, Sweden	SW	9000	101
-	06730	Jungfraujoch, Switzerland	SZ	4000	101
-	06610	Payerne, Switzerland	SZ	7000	101

TABLE 1 (Cont)

STATION CODES

NCDC NO.	WMO* CODE	STATION NAME	STATE OR COUNTRY	AREA	SITE
20050	60738	Thala, Tunisia	TS	8000	101
-		Dumfries Scotland, United Kingdom	UK	2000	101
-		Irkutsk, USSR	UR	4000	101
-	28661	Kurgan, USSR	UR	5500	101
-	37050	Novopjatigorsk, USSR	UR	6000	101
-	23804	Syktivkar, USSR	UR	7000	101
-	23472	Turukhansk, USSR	UR	8000	101
-	13577	Lazaropole, Yugoslavia	YO	4000	101
-	13128	Puntijarka, Yugoslavia	YO	5000	101
-		Luangwa, Zambia	ZA	6000	101

TABLE 2

COMMON PARAMETERS AND METHODS

PARAMETER	CODE	METHOD CODE	ANALYSIS
Precip (Vol) NG	65301	71	Volumetric
Precip (Vol) NG	65301	81	Volumetric
pH	65302	81	Glass Electrode
Conductivity	65303	81	Conductivity Cell
Sodium	65311	82	Atomic Absorption
	65311	83	Flame Emission
Potassium	65312	82	Atomic Absorption
	65312	83	Flame Emission
	65312	84	EDTA Titration
Calcium	65314	82	Atomic Absorption
	65314	83	Flame Emission
	65314	84	Colorimetric
	65314	85	X-ray Fluorescence
Chloride	65316	81	Colorimetric
	65316	82	Photometric Titration
	65316	83	Conductometric Titration
	65316	84	Nehpelometriccence
	65316	85	X-ray Fluorescence
Ammonium	65318	81	Nessler's Reagent
	65318	82	Sodium Phenolate
	65318	83	Colorimetric
*Nitrate	65321	81	Nessler's Reagent
	65321	82	Hydrazine Reduction
	65321	83	Colorimetric Titration
**Sulfate	65322	81	Colorimetric Titration
	65322	82	Photometric Titration
	65322	83	Conductometric Titration
	65322	84	Nephelometric
	65322	85	X-ray Fluorescence
Acidity	65330	81	Alkaline Titration
Alkalinity	65331	81	Acid Titration

*Always reported as Nitrogen - in future publications may be reported as Nitrate.

**Always reported as Sulfur - in future publications may be reported as Sulfate.

PRECIPITATION REFERENCE LABORATORY

In 1975 the WMO designated a Branch of the Environmental Monitoring Systems Laboratory of the U.S. Environmental Protection Agency to serve as the WMO Precipitation Reference Laboratory (PRL). The Branch is known as the Performance Evaluation Branch, and its function as PRL is to establish cooperation among national and international laboratories in order to provide a means of better evaluating precipitation chemistry data in connection with the Background Air Pollution Monitoring Network (BAPMoN).

A series of inter-laboratory analysis sessions were held to establish the quality of the precipitation chemistry data being reported and as influenced by the performance of WMO member laboratories. An initial set of reference precipitation materials was prepared and certified for the PRL by the U.S. Department of Commerce, National Bureau of Standards (US NBS). A set of these reference materials was forwarded to participating WMO and other laboratories for analysis on a voluntary basis. The first intercomparison took place in 1976 with 25 participating laboratories; the second, in 1977, with 26 participating laboratories; a third, in 1979, with 32 laboratories participating; and a fourth with 27 laboratories participating.

The results of the last comparison continue to show an improvement in overall results from that of the earlier comparisons. It should be noted that these inter-calibrations, on a truly global scale, are an invaluable contribution towards the establishment of realistic limits of confidence (which must be applied) in comparing individual measurements made at different laboratories. However, a global network that has been standardized as far as possible will remain heterogeneous to a certain extent.

PRECIPITATION CHEMISTRY DATA DESCRIPTION

The precipitation chemistry data are presented in two tables. The first table, IIA, is in monthly arrays for each parameter/method combination. The second table, IIB, presents data from sites which use weekly sampling protocol. Included are all sites with appropriate site and method write-ups reporting data obtained by a particular parameter/method.

On the right side of data table IIA are four columns of summary statistics. The columns show the arithmetic mean of the monthly values followed by standard deviation and the geometric mean followed by a geometric standard deviation. For pH, the geometric mean has been replaced by a weighted mean and standard deviation based hydrogen ion concentration. Examples of the equations used to calculate the statistics are referenced in Appendix D. When six or more months of data were missing, these summary statistics were not calculated. Also, for the weighted pH averages and standard deviation, if any corresponding volume measurement is not present, no calculation is made and an asterisk is inserted in the weighted fields. This precaution is taken to stress the fact that yearly summary statistics with a significant amount of missing data may be misleading. Hence, missing data are shown as blanks, while values below the detection limit for a method are shown as LD.

In each of the following data tables, the first two lines identify the source of the data, namely the WMO BAPMoN (Background Air Pollution Monitoring Network). The third line gives the parameter code along with its name. Line four shows method code and name. Line five gives units of measurement, e.g., milligrams per liter (mg/l), and code used in that particular table.

The precipitation in millimeters shown in the table is numerically equal to the liquid precipitation in liter/m^2. To compute total deposition in (mg/m^2/ month), the millimeters of monthly rainfall must be multiplied by the concentration of the parameter (mg/l) as shown in the corresponding table. The deposition calculated in this way would not generally agree exactly with the sum of the deposition values calculated from several individual measurements made throughout the month.

CONTINUOUS CO_2 MEASUREMENTS

The results of continuous CO_2 measurements appeared for the first time in the 1978 edition. The only station reporting on a routine basis until 1979 was Mt. Cimone, Italy, and the hourly values were reported to the Collaborating Center on the WMO Hourly Data Form (Figure 4). The values are summarized into daily means and into cumulative frequency distributions. The continuous CO_2 results from the Federal Republic of Germany appeared for the first time in the 1979 report covering the years 1974 through 1979. Data corrections for 1977 appeared in the 1980 publication.

SUSPENDED PARTICULATE MATTER

A listing of the 24-hour suspended particulate matter data is reproduced with summarizing means. It should be noted, however, that the CO_2 data are a reduction made from the original hourly values while the SPM data are directly obtained as 24-hour samples. These values are submitted to the Collaborating Center on the WMO Daily Data Form (Figure 5) and reproduced as daily means and frequency distributions.

REFERENCES

Fair, D.H., J.B. Clements, and G.B. Morgan (1971): SAROAD Parameter Coding Manual, APTD-0633, Environmental Protection Agency, Research Triangle Park, North Carolina.

Fair, D.H. (1972): SAROAD Station Coding Manual, APTD-0907, Environmental Protection Agency, Research Triangle Park, North Carolina.

U.S. National Bureau of Standards, (1970): Federal Information Processing Standards Publication 10 (FIPS Pub 10), The Standard for Countries, Dependencies, and Areas of Special Sovereignty.

WMO - No. 368, (1973): Special Environmental Report No. 3, Observation and Measurement of Atmospheric Pollution, Geneva, Switzerland.

WMO - No. 299, (1974): WMO Operations Manual for Sampling and Analysis Techniques for Chemical Constituents in Air and Precipitation, Geneva, Switzerland.

WMO - No. 491, (1978): International Operations Handbook for Measurement of Background Atmospheric Pollution, Geneva, Switzerland.

World Meteorological Organization (1974): WMO Precipitation Data Coding Guide, and BAPMoN Data Coding Guide (1981), Geneva, Switzerland.

WMO Circular Letter R/10P of June 30, 1975 (PR-2569).

WMO-EPA-NOAA: (1975): Atmospheric Turbidity and Precipitation Chemistry Data for the World 1974.

WMO-EPA-NOAA (1977): Global Monitoring of the Environment for Selected Atmospheric Constituents 1975.

WMO-EPA-NOAA (1978): Global Monitoring of the Environment for Selected Atmospheric Constitutents 1976.

WMO-EPA-NOAA (1980): Global Monitoring of the Environment for Selected Atmospheric Constituents 1977.

WMO-EPA-NOAA (1981): Global Monitoring of the Environment for Selected Atmospheric Constituents 1978.

WMO-EPA-NOAA (1983): Global Monitoring of the Environment for Selected Atmospheric Constituents 1980.

APPENDIX A

WORLD METEOROLOGICAL ORGANIZATION

A LIST OF CONTACTS WITH ADDRESSES

Prof. Dr. H. Reuter
Director, Zentralanstalt für
Meteorologie und Geodynamik
Hohe Warte 38, 1190 Wien
AUSTRIA

Dr. L. M. Malet
Institut Royal Meteroologique
3, Avenue Circulaire
1180 Bruxelles
BELGIUM

Mr. Malcolm E. Still
Head, Networks & Survey Section
Atmospheric Dispersion Division
Environment Canada
4905 Dufferin Street
Downsview, Ontario
CANADA M3H 5T4

Dr. Ing. Vaclav Richter
Director, Hydrometeorological Institute
Holeckova 8, Prague 5, Smichov
CZECHOSLOVAKIA

Mr. Hans Buch
Danish Meteorological Institute
Lyngbyvej 100
DK-2100 Copenhagen, O
DENMARK

Dr. G.T. Guzman López
Director, División de Meteorologíá y
Hydrología
Apartado postal 2265
San Salvador / EL SALVADOR

Dr. Antti Kulmala
Chief, Aerological Division
Finnish Meteorological Institute
Vuorikatu 24, Box 503 Helsinki 10
FINLAND

Dr. A. Gaudry
Centre des Faibles Radioactivites
domaine du CNRS
GIF-SUR-YVETTE 91190
FRANCE

Professor Dr. W. Bohme
Director, Meteorologischer Dienst
Luckenwalder Strasse 42-46
DDR-15 Potsdam 2
GERMAN DEMOCRATIC REPUBLIC

Prof. Dipl.-Met. H. Schirmer
Deutscher Wetterdienst
Postfach 185
6050 Offenbach am Main, den
FEDERAL REPUBLIC OF GERMANY

Dr. E. Meszaros
Director
Institute for Atmospheric Physics
P. O. Box 39
H-1675 Budapest XIX
HUNGARY

Shzi S.J. Maske
Office of the Director-General
of Observatories
Air Pollution Section
Meteorological Office
Poona 411005
INDIA

Mr. R. P. Sudarmo D.
Director, Meteorological and
Geophysical Institute
Jalan Arief Rakhman Hakim No. 3
Jakarta
INDONESIA

Mr. D. L. Linehan
Director, Meteorological Service
Glasnevin Hill, Dublin 9
IRELAND

Mr. R. Pirro
Director, Servizio Meteorologico
dell' Aeronautica
Piazzale Degli Archivi 34
I - 00100 Rome
ITALY

Dr. Makoto Komabayashi
Head of Division of Observations
Japan Meteorological Agency
1-3-4 Ote-Machi, Chiyoda-Ku
Tokyo
JAPAN

Ho Tong Yuen
Director, Malaysian Meteorological
Service
Jalan Sultan, Petaling Jaya
Selangor, West Malaysia
MALAYSIA

Mr. A. J. Frantzen
Netherlands Meteorological Institute
Postbus 201
3730 AE de Bilt
NETHERLANDS

Mr. J. Schaug
Norwegian Institute for Air Research
P. O. Box 130
2001 Lillestrom
NORWAY

Dr. Regina Hryniewicz
Atmosphere Chemistry Laboratory
Institute of Meteorology and
Water Management
Warsaw 61
POLAND

Prof. L. A. Mendes Victor
Directeur général de l'Institut national
de météorologie et de géophysique
Rua C, Aeroporto de Lisboa, 1700 Lisboa
PORTUGAL

N. Ciovica, Director
Institut de Meteorologie
et D'Hydrologie
Sos. Bucuresti-Ploiesti 97
Bucarest 18
ROMANIA

Mr. Paul Schlyter
Dept. of Meteorology
University of Stockholm
Arrenius Laboratory
S-106 91 Stockholm
SWEDEN

Dr. R. Mueller
Laboratoire Federal d'Essai
des Materiaux
8600 Duebendorf
SWITZERLAND

M. Mohamed Allouche
Chef du Service de la Geophysique
Institut National de le Meteorologie
Aéroport de Tunis-Carthage
TUNISIA

Dr. J.T. Houghton
Director-General
Meteorological Office
London Road, Bracknell
Berkshire RG12 2SZ
UNITED KINGDOM

Dr. V. Boldirev
USSR State Committee for Hydrometeorology
and Control of Natural Environment
Pavlik Morozov Street 12
Moscow 123376
USSR

Dr. Richard Artz
NOAA-Air Resources Laboratory
6010 Executive Boulevard
Rockville, Maryland 20852
USA

Director, GMCC
ERL/NOAA, R/E/AR4
325 Broadway
Boulder, CO 80303
USA

Mr. Franc Gamser
Federal Hydrometeorological Institute
P.O. Box 604
11000 Beograd
YUGOSLAVIA

Mr. V.A. Simango, Director
Meteorological Department
P.O. Box 200
Lusaka
ZAMBIA

APPENDIX B

BAPMoN EXPANSION WITH PRECIPITATION DATA

YEARS	NUMBER OF COUNTRIES	NUMBER OF SITES
1974	11	34
1975	17	49
1976	19	55
1977	22	79
1978	25	83
1979	28	86
1980	31	95
1981	30	95

APPENDIX C

EXPLANATION OF STATISTICAL TERMS

ARITHMETIC MEAN

In the presentation of numerical data one seeks to find a value that is most representative of the entire set of data. Such a value is referred to as a measure of central tendency. The equation for computing the most commonly used measure of central tendency, the arithmetic mean (average), is

$$\overline{X} = \frac{1}{N} \sum_{i=1}^{N} X_i$$

where

$\overline{X}$ = the arithmetic mean

N = the number of measurements

$\sum_{i=1}^{N} X_i = X_1 + X_2 + \ldots + X_N$, i.e., the sum of the N measurements

GEOMETRIC MEAN

If the distribution of a set of numbers is approximately normal (the familiar bell-shaped curve), the arithmetic mean is an appropriate measure of central tendency. Studies of the distribution of measurements of particulate air pollutants tend to indicate, however, that a more suitable frequency function is that of the lognormal distribution. For this class of distributions, the logarithms of the actual measurements are approximately normally distributed. The measure of central tendency most appropriate for the lognormal distribution is the geometric mean given by

$$\overline{X}_g = [X_1 \cdot X_2 \cdot X_3 \ldots X_N]^{1/N}$$

or more simply by

$$\overline{X}_g = \text{antilog} \left[\frac{1}{N} \sum_{i=1}^{N} \log X_i\right]$$

where

$\overline{X}_g$ = the geometric mean
N = the number of observations
$\sum_{i=1}^{N} \log X_i$ = the sum of the common logarithms of the measurement.

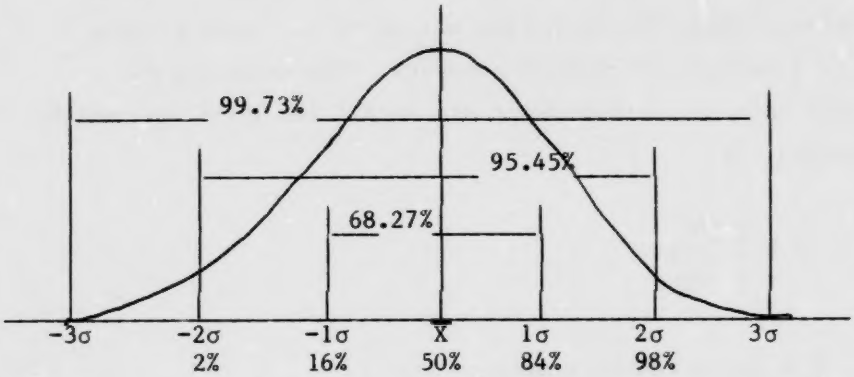


Figure IC.1 - Normal Distribution Curve

STANDARD GEOMETRIC DEVIATION

The probability density function of the lognormal distribution is

$$y = \frac{1}{X \log \sigma_g \sqrt{2\pi}} \, e^{-\frac{(\log X - \log \overline{X}_g)^2}{2 \log \sigma_g^2}}$$

where

π = a constant, approximately 3.1416
e = a constant, approximately 2.7183
σ_g = a parameter, called the standard geometric deviation

$\overline{X}_g$ = a parameter, called the geometric mean
X = the abscissa, or a measurement on the X axis of some variable like the concentration of suspended particulate
y = the ordinate, corresponding to the frequency of an assigned value of X
N = the total number of observations of the variable.

From the equation it is apparent that the lognormal distribution is completely described by two parameters, the geometric mean (X_g), which has already been discussed, and the standard geometric deviation (σ_g). Whereas the geometric mean is a measure of central tendency, the standard geometric deviation, similar to the standard deviation, is a measure of the dispersion or spread in a distribution of values. One standard deviation in the logarithms is equivalent to multiplying or dividing the original data by the geometric standard deviation. The equation for the standard geometric deviation is

$$\sigma_g = \text{antilog} \left[\frac{N \sum_{i=1}^{N} \log^2 X_i - \left(\sum_{i=1}^{N} \log X_i \right)^2}{N(N-1)} \right]^{1/2}$$

where

σ_g = standard geometric deviation

N = the number of measurements

$\sum_{i=1}^{N} \log X_i$ = the sum of the logarithms of the measurements

$\sum_{i=1}^{N} \log^2 X_i$ = the sum of squares of logarithms of measurements.

A brief review of the properties of the standard deviation of a normal distribution will help to better understand the standard geometric deviation. The normal curve is symmetrical, and the mean and median (i.e., the 50th percentile) coincide (fig. IC.1). If the area under the normal curve is assumed to be unity, then it can be shown that 0.6827 of this area is contained in the interval $X \pm \sigma$. It can be further shown that 0.8413 of the area lies to the left of $X + \sigma$. Likewise for the lognormal distribution 0.6827 of the area under the curve lies in the interval X_g/σ_g to $X_g\sigma_g$, and 0.8413 of the area lies to the left of $X_g\sigma_g$.

A graphic presentation of the lognormal distribution can be easily constructed, since the cumulative frequency distribution is linear when plotted on logarithmic probability graph paper. One can plot several points (e.g., the percentiles) of the cumulative frequency distribution or, more easily, plot the geometric mean value (X_g) on the 50 percent ordinate and the value $X_g \sigma_g$, on the 84.13 percent ordinate and fit a straight line to the set of points. As an example, the cumulative frequency distribution of suspended particulates for all urban stations for 1960 is plotted, by the two techniques just described (Fig. I.2). First, the percentiles of the cumulative frequency distribution are plotted. Next, the geometric mean of 99 $\mu g/m^3$ is plotted on the 50 percent ordinate and the value 176 $\mu g/m^3$ ($X_g\sigma_g$= 99 X 1.78) is plotted on the 84.13 percent ordinate. The same straight line fits both sets of points.

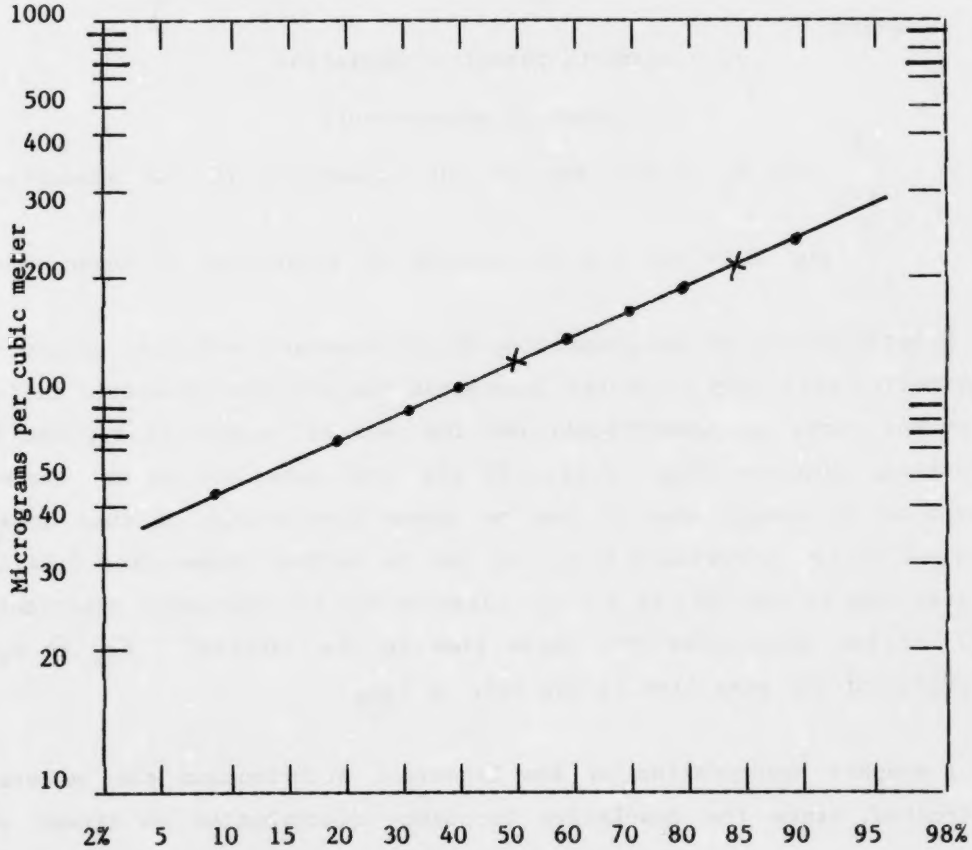


Figure IC.2 - % OF SAMPLES LESS THAN STATED MICROGRAMS PER CUBIC METER

WEIGHTED AVERAGES FOR PH

The weighted averages for pH are calculated in the following manner. Convert pH to the hydrogen ion concentrations per liter and multiply by volume in liters to give total hydrogen ion concentration per sample where

pH = pH value in pH units

[H+] = hydrogen ions

[TH+] = total hydrogen ion concentrations per sample

V = volume in liters

$\overline{[H+]}$ = weighted average hydrogen ion concentration

[TV] = total volume

and

$[H+] = 10^{-pH}$

$[TH+] = V\,[H+]$

and sum of the total hydrogen concentrations is divided by the total volume to give an average hydrogen ion concentration which is then converted by taking the antilog to give average pH described in the following equations.

$$\overline{[H+]} = \frac{1}{V} \sum_{i=1}^{\eta} V_i \, [H^+_i] \quad ; \quad V = \sum_{i=1}^{\eta} V_i$$

$$\overline{pH_w} = -\mathrm{Log}_{10} \overline{[H+]}$$

where $\overline{pH_w}$ = weighted pH average

APPENDIX D

Brief Summary of Analytical Methods for Selected Parameters

PRECIPITATION

Parameter Code 65301 Method Code 81 Volumetric

Collection is accomplished by means of a precipitation gage and funnel which is open during precipitation. A lid prevents the deposition of particuiate matter at other times. The amount collected is reported in millimeters of precipitation.

pH

Parameter Code 65302 Method Code 81 Glass Electrode

The pH is measured by a standard pH instrument using a glass electrode. Measurements indicate whether the sample is alkaline (pH>7.0) or acid (pH<7.0). The unit of measurement is the standard pH.

SODIUM

Parameter Code 65311 Method Code 82 Atomic Absorption

Quantitative analysis for sodium is normally performed with a flame atomic absorption instrument using a hollow sodium cathode tube. The sample is aspirated through the instrument nebulizer with absorption being recorded. This quantity of absorption is interpreted later in quantity of sodium (mg/l).

Parameter Code 65311 Method Code 83 Flame Emission

The sample is aspirated into a flame emission spectrophotometer. The quantity of emitted radiation is proportional to the quantity of sodium (mg/l).

CONDUCTIVITY

Parameter Code 65303 Method Code 81 Conductivity Cell

The electrical conductivity is measured by a conductivity cell and a 1000 hertz alternating current conductivity bridge. This value is related most linearly to total dissolved salts in precipitation and is reported as microsiemens per centimeter (μS/cm).

ACIDITY

Parameter Code 65330 Method Code 81 Alkaline Titration

The sample is titrated first with acid to about pH 4. Then air is bubbled through it to remove any excess of carbon dioxide formed by alkaline titration up to pH 5.6 which is the expected pH of distilled water in equilibrium with atmospheric carbon dioxide. If the difference is negative, i.e., more alkali has been added than acid, the sample has an excess acidity and is reported as microequivalents per liter (μeq/l).

ALKALINITY

Parameter Code 65331 Method Code 81 Acid Titration

The sample is titrated first with acid to about pH 4. Then air is bubbled through it to remove any excess of carbon dioxide formed from bicarbonate and carbonate on acidification. This is followed by alkaline titration up to pH 5.6 which is the expected pH of distilled water in equilibrium with atmospheric carbon dioxide. If more acid has been added than alkali, the sample has an excess alkalinity which is expressed in the same way as acidity, which is (μeq/l).

SECTION II

DATA TABLES

SECTION II

A. MONTHLY PRECIPITATION CHEMISTRY DATA TABLE INDEX

Parameters

Volume IIA-1

General Parameters

pH . . . . IIA- 8
Conductivity IIA-13
Strong Acids IIA-17
Acidity IIA-71
Alkalinity IIA-75

Metals

Sodium IIA-18
Potassium IIA-23
Magnesium IIA-27
Calcium IIA-34

Non-Metals Ions

Fluoride IIA-40
Chloride IIA-41
Ammonium IIA-50
Nitrate IIA-56
Sulfate IIA-63

WORLD METEOROLOGICAL ORGANIZATION
PRECIPITATION NET.ORK DATA
65301 - VOLUME
71 - PRECIP NATIONAL GAUGE

UNITS - 25 - MM-MILLIMETER

	YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	YEARLY ARITHMETIC MEAN	YEARLY ARITHMETIC STDEV	YEARLY GEOMETRIC MEAN	YEARLY GEOMETRIC STDEV
CANADA EDSON CA3000 101	81	2	12	6	10	98	52	93	48	63	19	5	20	35.6	34.4	15.92	3.50
CANADA HAY RIVER CA5030 101	81	5	16	9	53		7	18	54	41		24	19	24.5	16.3	16.56	2.28
CANADA KELOWNA CA5050 101	81	16	40	28	36	60		45	38	53	41	16	27	36.3	13.9	33.62	1.54
CANADA MANIWAKI CA5100 101	81	21	116	50	67	105	116	71	95	83	65	74	25	74.0	31.5	65.88	1.74
CANADA MOULD BAY CA5400 101	81	15		1		60		3	37		11	4	2	16.6	21.1	7.37	4.22
CANADA MOUNT FOREST CA6000 101	81		75	50	57	68	77	51	173	92	110	70	41	80.3	36.9	74.12	1.50
CANADA PICKLE LAKE CA6050 101	81	23	29		77	33	74	43	21	57	46	48	30	43.7	19.2	40.07	1.55
CANADA SABLE ISLAND CA7500 101	81	118	66		118				127		105						
CANADA WYNYARD CA9000 101	81		13	23	23	26	89	134	67	56				53.8	41.7	41.01	2.23
CZECHOSLOVAKIA CHOPOK CZ2000 101	81	95	42	105	41	115	212	84	131	66	93	77	136	99.7	46.6	90.35	1.60
CZECHOSLOVAKIA SVRATOUCH CZ8000 101	81	79	31	70	37	37	45	149	85	54	98	73	52	67.5	33.2	61.06	1.58
DENMARK TANGE DA8000 101	81			88	10	138	82	69	69	46	81	105	38	72.5	35.8	60.92	2.08
IRELAND VALENTIA OBSERVAT EI8000 101	81	59	169	205	31	152	90	63	53	243	121	72	148	117.1	66.7	95.18	1.87

WORLD METEOROLOGICAL ORGANIZATION
PRECIPITATION NETWORK DATA
65301 - VOLUME
71 - PRECIP NATIONAL GAUGE

UNITS - 25 - MM-MILLIMETER

														YEARLY			
														ARITHMETIC		GEOMETRIC	
	YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	MEAN	STDEV	MEAN	STDEV
FINLAND JOKIOINEN FI5000 101	81	49	21	40	41	19	115	104	68	15	114	72	64	60.1	36.2	45.27	2.43
FINLAND SODANKYLA FI9000 101	81	41	12	35	31	34	104	92	61	61	61	49	42	51.9	25.9	45.61	1.76
FRANCE ABBEVILLE FR1000 101	81	35	16	44	26	50	61	53	35	60	91	33	53	46.5	19.4	42.90	1.54
FRANCE CARPENTRAS FR3000 101	81	23	6	56	39	64	36	22	LD	103	36	LD	110	41.5	36.1	21.21	4.91
FRANCE CHATEAUCHINON FR4000 101	81	141	49	105	15	103	125	65	43	101	130	50	125	87.6	41.3	75.08	1.93
FRANCE GOURDON FR6000 101	81	74	57	91	29	149	71	33	40	71	85	26	218	76.6	55.5	64.63	1.90
FRANCE PHALSBOURG FR7000 101	81	57	35	56	28	33	101	56	52	62	150	70	130	69.1	38.4	60.83	1.68
FRANCE ROSTRENEN FR9000 101	81	61	55	108	40	130	13	20	11	105	112	13	162	69.1	52.3	47.54	2.70
GERMAN DEM REP NEUGLOBSOW GC7000 101	81	59	24	115	14	40	96	64	39	91	92	49	46	60.7	31.4	52.23	1.85
FED REP GERMANY BROTJACKLRIEGEL GE2000 101	81				43	70	65	240	62	123	185			112.5	74.2	94.28	1.88
FED REP GERMANY DEUSELBACH GE3000 101	81	81	36	102	77	58	93	51	86	93	114			79.0	24.2	75.14	1.42
FED REP GERMANY LANGENBRUGGE GE6000 101	81	56	28	87	13	77	103	47	56	71	80			61.7	27.4	53.98	1.86
FED REP GERMANY SCHAUINSLAND GE9000 101	81	266	136	237	54	210	126	178	90	209	442			194.7	109.3	168.26	1.81

WORLD METEOROLOGICAL ORGANIZATION
PRECIPITATION NETWORK DATA
65301 - VOLUME
71 - PRECIP NATIONAL GAUGE

UNITS - 24 - MM-MILLIMETER

														YEARLY			
														ARITHMETIC		GEOMETRIC	
	YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	MEAN	STDEV	MEAN	STDEV
HUNGARY KECSKEMET HU7000 101	81	12	8	30	11	44	120	49	44	74	31	16	107	45.5	37.1	32.55	2.46
INDONESIA JAKARTA ID6000 102	81	561	171	268	299	65	92	71	47	89	86	211	352	194.3	159.1	145.53	2.21
INDIA ALLAHABAD IN2000 101	81	18					111	471	463	173							
INDIA JODHPUR IN4000 101	81			9			3	54	52	96		40					
INDIA KODAIKANAL IN4200 101	81	21		69	53	155	64	202	124	357	258	171	103	143.3	100.0	110.81	2.25
INDIA MINICOY IN4500 101	81		41		45	303	349	87	198	230	175	91		168.7	111.5	132.17	2.20
INDIA MOHANBARI IN5000 101	81	41	71	127	143	262		597	654	372	96		28	241.0	229.5	150.13	2.95
INDIA NAGPUR IN5500 101	81	25		51		31	224		308	415	33			155.2	160.0	86.87	3.35
INDIA PUNE IN6000 101	81	5	2		8	37	153	262	95	173	42			88.5	96.5	35.43	5.70
INDIA PORT BLAIR IN7000 101	81	20	7		41	303	571	253	611	508	315	309	267	291.3	211.5	162.07	4.48
INDIA SRINAGAR IN8000 101	81	65	91	208	68	47	50	123	37					88.6	55.7	72.47	1.75
INDIA VISAKAPATNAM IN9000 101	81				46	28	81	110	113	383	83	19		107.8	116.6	72.73	2.53
ITALY MONTE CIMONE IT4000 101	81								50	177	63	60	102				

WORLD METEOROLOGICAL ORGANIZATION
PRECIPITATION NETWORK DATA
65301 - VOLUME
71 - PRECIP NATIONAL GAUGE

UNITS - 29 - MM-MILLIMETER

													YEARLY			
													ARITHMETIC		GEOMETRIC	
	YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	MEAN	STDEV	MEAN	STDEV
ITALY S.MARIA DI LEUCA IT7000 101	81								7	21	86	41	43				
ITALY TRAPANI/BIRGI IT8000 101	81								LD	1	7	24	74				
ITALY VERONA IT8500 101	81								110	99	89	LD	71				
ITALY VITERBO IT9000 101	81								14	44	50	LD	41				
JAPAN RYORI JA9000 101	81									316	162	22					
JORDAN SHOUBAK JO9000 101	81			60													
MALAYSIA CAMERON HIGHLANDS MY2000 101	81	75	117	45	331	391	96	117	57	303	285	237	69	176.9	123.6	132.63	2.33
NETHERLANDS WITTEVEEN NL8000 101	81	101	55	165	15	67	98	54	44	55	131	97	75	79.3	39.4	69.14	1.81
POLAND JELENIA GORA PL5000 101	81	135			70	43	76	334	182	58	113	143	105	125.8	84.6	106.33	1.81
POLAND SUWALKI PL8000 101	81	24	22	31	16	59	96	111	76	42	50	89	50	55.6	31.0	47.48	1.83
PORTUGAL BRAGANCA PO2000 101	81		46	71	80	51	9	4	8	145			249	73.6	79.4	37.26	4.10
PORTUGAL FARO PO5000 101	81									23							
ROMANIA SEMENIC RO1000 101	81			81	67												

WORLD METEOROLOGICAL ORGANIZATION
PRECIPITATION NETWORK DATA
65301 - VOLUME
71 - PRECIP NATIONAL GAUGE

UNITS - 25 - MM-MILLIMETER

														YEARLY			
														ARITHMETIC		GEOMETRIC	
	YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	MEAN	STDEV	MEAN	STDEV
ROMANIA SEMENIC RO1000 102	81	36	42		67	131	190	52	45	108	176	131	99	98.0	54.7	84.00	1.61
ROMANIA FUNDATA RO2000 102	81	62	46	31	57	74	169	210	190	84	74		81	98.0	61.5	82.87	1.82
ROMANIA TURIA RO6000 101	81	100	55	68	61	112	86	128	45	94	36	60	62	75.5	28.1	70.82	1.46
ROMANIA TURIA RO6000 102	81	100	55	68	61	112	86	128	45	94	36	60	65	75.6	28.1	70.92	1.46
ROMANIA RARAU RO7000 101	81	90															
ROMANIA RARAU RO7000 102	81	90	40	49	88	207	186	300	78	89	47	88	89	112.5	76.0	93.70	1.84
ROMANIA STINA DE VALE RO8000 101	81	160	65	322	133	173	170	174	86	92	247			164.1	77.7	147.90	1.63
ROMANIA STINA DE VALE RO8000 102	81	160	330	322	138	173	170	174	86	92	247	149	330	199.2	87.7	181.73	1.57
ROMANIA PARING RO9000 101	81				74												
ROMANIA PARING RO9000 102	81	76	24	83	74	98	116	76	82			73	78	78.0	23.2	73.36	1.51
SWITZERLAND PAYERNE SZ7000 101	81	75	23	112	6	129	45	89	33	99	111	39	122	73.7	42.3	57.75	2.33
UNITED KINGDOM DUMFRIES SCOTLAND UK2000 101	81	110	92	222	68	94	141	117	36	273	215	211	62	136.7	75.6	116.95	1.83
USSR IRKUTSK UR4000 101	81	5	14	22			17	40	16	36	26			22.0	11.6	18.81	1.92

WORLD METEOROLOGICAL ORGANIZATION
PRECIPITATION NETWORK DATA
65301 - VOLUME
71 - PRECIP NATIONAL GAUGE

UNITS - 25 - MM-MILLIMETER

	YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	YEARLY ARITHMETIC MEAN	YEARLY ARITHMETIC STDEV	YEARLY GEOMETRIC MEAN	YEARLY GEOMETRIC STDEV
USSR KURGAN UR5500 101	61	7	7	22	22	35	17	72		49	12	19	11	24.8	20.0	19.12	2.11
USSR NOVOPJATIGORSK UR6000 101	61	5	11	60	43	94	140	131	175	62	55	27	12	67.9	55.7	43.60	3.07
USSR SYKTIVKAR UR7000 101	61	42	14	13	12	18	77	56	106	96	57	33	42	47.3	32.6	36.62	2.19
USSR TURUKHANSK UR8000 101	61	63	25	42	33	36	60	57	12	62	71	27	64	46.0	19.1	41.28	1.70

WORLD METEOROLOGICAL ORGANIZATION
PRECIPITATION NETWORK DATA
65301 - VOLUME
81 - PRECIP VOLUMETRIC

UNITS - 25 - MM-MILLIMETER

	YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	YEARLY ARITHMETIC MEAN	YEARLY ARITHMETIC STDEV	YEARLY GEOMETRIC MEAN	YEARLY GEOMETRIC STDEV
CANADA EDSON CA3000 101	81	2	8	4	5	62	35	72	45	49	23	4	12	26.4	28.0	15.27	3.60
CANADA HAY RIVER CA5030 101	81	2	3	2	16		2	11	50	28		4	4	12.1	15.7	6.27	3.26
CANADA KELOWNA CA5050 101	81	14	34	21	27	45		25	15	43	33	11	22	26.3	11.3	24.05	1.58
CANADA MANIWAKI CA5100 101	81	5	129	40	48	95	61	63	80	66	34	57	18	59.6	34.3	46.77	2.39
CANADA MOULD BAY CA5400 101	81	3		8		45		2	20		5	3	6	11.5	14.7	6.66	2.85
CANADA MOUNT FOREST CA6000 101	81		43	31	36	77	65	47	160	78	88	52	21	63.4	38.4	54.85	1.75
CANADA PICKLE LAKE CA6050 101	81	8	18		59	23	63	13	30	57	22	37	22	32.0	19.3	26.69	1.92
CANADA SABLE ISLAND CA7500 101	81	215	97		86				107		109						
CANADA WYNYARD CA9000 101	81		6	11	16	16	42	123	63	49				40.7	39.0	26.84	2.75
DENMARK TANGE DA8000 101	81			93	10	69	69	44	38	50	94	112	22	60.0	33.1	45.35	2.10
IRELAND VALENTIA OBSERVAT EI8000 101	81	36	159	194													
FINLAND JOKIOINEN FI5000 101	81	39	18	22	L8	7	94	67	79	7	101	66	30	44.2	35.6	25.49	3.96
FINLAND SODANKYLA FI9000 101	81	24	8	3	26	13	82	84	57	57	41	21	16	36.0	27.9	25.01	2.71

WORLD METEOROLOGICAL ORGANIZATION
PRECIPITATION NETWORK DATA
65301 - VOLUME
81 - PRECIP VOLUMETRIC

UNITS - 25 - MM-MILLIMETER

	YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	YEARLY ARITHMETIC MEAN	YEARLY ARITHMETIC STDEV	YEARLY GEOMETRIC MEAN	YEARLY GEOMETRIC STDEV
FAEROE ISLANDS EJDE LORANSTATIO FO3000 101	81	144	134	83	52	99	60	61	71	147	180	115	103	104.0	40.7	96.73	1.49
FRANCE ABBEVILLE FR1000 101	81	59	27	75	30	76	62	54	37	92	143	51	97	66.9	32.7	60.04	1.63
FRANCE CARPENTRAS FR3000 101	81	25	9	57	40	66	36	24	3	103	36	2	110	42.5	35.7	25.38	3.62
FRANCE CHATEAUCHINON FR4000 101	81	173	64	147	30	155	214	78	50	122	260	66	213	131.0	74.5	109.01	1.96
FRANCE GOURDON FR6000 101	81	74	57	91	29	149	71	33	40	71	85	26	218	78.6	55.5	64.63	1.90
FRANCE PHALSBOURG FR7000 101	81	66	39	73	31	65	108	63	62	70	217	75	174	86.5	54.4	76.66	1.72
FRANCE ROSTRENEN FR9000 101	81	77	65	143	49	177	26	37	17	1141	157	31	195	176.2	310.3	83.19	3.17
FED REP GERMANY BROTJACKLRIEGEL GE2000 101	81				53	65	65	232	61		171						
FED REP GERMANY DEUSELBACH GE3000 101	81	41	24	85	46	51	85	44	82	93	109			66.0	27.9	60.05	1.61
FED REP GERMANY LANGENBRUGGE GE6000 101	81	41	19	81	7	55	87	36	44	64	72			50.5	26.1	41.57	2.16
FED REP GERMANY SCHAUINSLAND GE9000 101	81	83	45	202	38	199	114	171	87	190	320			144.8	87.6	119.38	2.00
GREENLAND GODHAVN GL4000 101	81	7	6	LD	LD	LD	14	40	83	LD	LD	53		16.9	27.6	5.35	5.96
HUNGARY KECSKEMET HU7000 101	81					14	120										

WORLD METEOROLOGICAL ORGANIZATION
PRECIPITATION NETWORK DATA
65301 - VOLUME
81 - PRECIP VOLUMETRIC

UNITS - 29 - MM-MILLIMETER

	YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	YEARLY ARITHMETIC MEAN	YEARLY ARITHMETIC STDEV	YEARLY GEOMETRIC MEAN	YEARLY GEOMETRIC STDEV
ITALY MONTE CIMONE IT4000 101	81	9	14	53	31	43	53	111						44.8	34.0	33.58	2.35
ITALY S.MARIA DI LEUCA IT7000 101	81	66	54	10	19	10	1	22						26.0	24.4	14.70	4.04
ITALY TRAPANI/BIRGI IT8000 101	81	64	53	27	25	18	6	[illegible]						30.5	26.9	16.43	4.43
ITALY VERONA IT8500 101	81	11	2	48	42	72	68	140						54.7	45.9	31.44	4.22
ITALY VITERBO IT9000 101	81	15	9	20	21	11	55	12						20.4	15.8	17.00	1.82
JAPAN RYORI JA9000 101	81	18	50	65	150	140	186	66	190				24	99.0	68.2	74.35	2.39
JORDAN SHOUBAK JO9000 101	81			60													
MALAYSIA CAMERON HIGHLANDS MY2000 101	81	31	112	51	367	368	92	122	51	306	326	184	78	175.6	133.7	128.70	2.36
NETHERLANDS WITTEVEEN NL8000 101	81	91	49	157	14	65	92	55	42	52	124	89	72	74.8	36.9	65.35	1.81
NORWAY AS NO1000 101	81							101	5	83	75	104	7				
NORWAY BIRKENES NO2000 101	81							96	10	330	229	169	89				
NORWAY KISE NO5000 101	81							62	7	15	32	36	6				
POLAND SUWALKI PL8000 101	81	23	19	28	16	54	90	102	70	37	47	82	41	50.7	25.1	42.57	1.66

WORLD METEOROLOGICAL ORGANIZATION
PRECIPITATION NETWORK DATA
65301 - VOLUME
81 - PRECIP VOLUMETRIC

UNITS - 29 - MM-MILLIMETER

														YEARLY			
														ARITHMETIC		GEOMETRIC	
	YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	MEAN	STDEV	MEAN	STDEV
ROMANIA SEMENIC R01000 101	81			65													
ROMANIA SEMENIC R01000 102	81	35	39		63	73	147	50	37	69	173	124	57	78.8	47.4	68.01	1.74
ROMANIA FUNDATA R02000 102	81	61	46	31	57	73	169	209	188	84	73		73	96.7	61.4	81.65	1.82
ROMANIA TURIA R06000 101	81	5	10	40	46	61	82	255	39	69	23	37	59	62.1	65.6	40.76	2.77
ROMANIA TURIA R06000 102	81	53	50	33	48	70	45	215	35	92	29	53	58	65.0	50.2	55.28	1.70
ROMANIA RARAU R07000 101	81	34															
ROMANIA RARAU R07000 102	81	34	30	34	44	193	138	233	75	86	37	43	32	81.5	69.4	61.80	2.09
ROMANIA STINA DE VALE R08000 101	81	47		251	85	154	168	169	85	86	202			136.5	66.6	123.06	1.71
ROMANIA STINA DE VALE R08000 102	81	166	286	246	121	125	155	161	84	73	224	133	286	171.6	72.9	157.34	1.56
ROMANIA PARING R09000 101	81				34												
ROMANIA PARING R09000 102	81	31	31	80	64	72	82	69	72			40	59	60.0	19.2	56.65	1.45
SWEDEN BREDKALEN SW1000 101	81	36	16	67	11	9	98	112	39	30	96	79	21	51.1	37.2	37.53	2.41
SWEDEN VELEN SW9000 101	81	32	22	52	7	59	116	57	44	37	73	106	10	51.2	34.2	39.05	2.36

```
                                        WORLD METEOROLOGICAL ORGANIZATION
                                           PRECIPITATION NETWORK DATA
                                              65301 - VOLUME
                                              81 - PRECIP  VOLUMETRIC
                                                                                 UNITS - 29 - MM-MILLIMETER
                                                                                                     YEARLY
                                                                                        ARITHMETIC     GEOMETRIC
                  YEAR   JAN    FEB    MAR    APR    MAY   JUNE   JULY    AUG   SEPT    OCT    NOV    DEC   MEAN   STDEV MEAN  STDEV

SWITZERLAND
 JUNGFRAUJOCH
  SZ4000 101      81     69     63    202     63    131     92    154     26    132    135     75    148   109.3    49.1 97.45  1.71

UNITED KINGDOM
 DUMFRIES SCOTLAND
  UK2000 101      81     85     77    166     24     76    108     99     31    233    180    158     30   105.5    66.2 84.39  2.12
```

WORLD METEOROLOGICAL ORGANIZATION
PRECIPITATION NETWORK DATA
65302 - PH
81 - PRECIP GLASS ELECTRODE

UNITS - 61 - PH UNITS

	YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	YEARLY ARITHMETIC MEAN	YEARLY ARITHMETIC STDEV	YEARLY WEIGHTED MEAN
CANADA EDSON CA3000 101	81	6.90		6.00	6.90	5.40	7.40	5.30	6.10	6.00	6.50	6.90	6.60	6.363	0.663	5.62
CANADA HAY RIVER * CA5030 101	81	6.90	7.20	7.30	6.20		6.80	6.10	6.30	6.70		6.50	6.60	6.659	0,403	6.36
CANADA KELOWNA CA5050 101	81	5.00	6.20	5.00	6.60	5.10		6.10	6.10	5.70	5.30	5.60	5.10	5.618	0.563	5,37
CANADA MANIWAKI CA5100 101	81	4.20	4.40	4.20	4.40	4.10	4.30	4.00	4.40	4.20	4.20	4.20	4.30	4.241	0.124	4,22
CANADA MOULD BAY CA5400 101	81	6.40		5.60		5.50		4.50	6.20		6.90	4.30	4.80	5.524	0.940	5,27
CANADA MOUNT FOREST CA6000 101	81		4.60	5.50	6.50	4.30	4.70	4.30	3.90	4.30	4.60	4.70	4.50	4.718	0,711	4,27
CANADA PICKLE LAKE CA6050 101	81	4.60	4.70		5.20	6.50	5.20	7.20	5.30	5.30	4.90	5.90	5.60	5.509	0.762	5,22
CANADA SABLE ISLAND CA7500 101	81	5.00	5.60		4.70				5.50		4.70					
CANADA WYNYARD CA9000 101	81		6.90	7.90	6.90	6.80	6.20	6.70	5.90	6.30				6.699	0.607	6.30
CZECHOSLOVAKIA CHOPOK CZ2000 101	81	5.08	3.94	4.47	4.30	4.36	4.27	4.07	4.19	4.53	4.37	4.24	4.15	4.330	0.287	4,27
CZECHOSLOVAKIA SVRATOUCH CZ8000 101	81	4.06	4.39	4.25	4.21	4.11	4.61	4.36	4.39	4.42	4.18	4.42	4.27	4.305	0.154	4.28
DENMARK TANGE DA8000 101	81			4.40	5.50	6.30	4.60	6.00	4.10	4.30	4.70	4.50	4.35	4.894	0,766	4.55
IRELAND VALENTIA OBSERVAT EI8000 101	81	5.10	4.90	6.10	5.80	5.00	5.90	6.10	6.20	5.30	5.90	6.00	5.30	5.633	0.477	5.32

WORLD METEOROLOGICAL ORGANIZATION
PRECIPITATION NETWORK DATA
65302 - PH
81 - PRECIP GLASS ELECTRODE

UNITS - 81 - PH UNITS

														YEARLY		
														ARITHMETIC		WEIGHTED
	YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	MEAN	STDEV	MEAN
FINLAND JOKIOINEN FI5000 101	81	4.49	4.46	4.15		4.26	4.60	4.12	4.50	4.05	4.45	4.42	4.45	4.359	0.182	4.39
FINLAND SODANKYLA FI9000 101	81	5.02	4.85	4.91	4.63	3.89	4.43	4.59	4.67	4.44	4.77	4.67	4.92	4.649	0.302	4.53
FAEROE ISLANDS EJDE LORANSTATIO FO3000 101	81	4.90	4.10	5.00	4.65	4.45	4.80	5.00	4.80	4.45	5.15	5.10	4.50	4.741	0.317	4.60
FRANCE ABBEVILLE FR1000 101	81	4.25	5.23	4.60	4.77	6.24	4.07	4.40	7.25	6.80	4.37	4.50	4.45	5.077	1.077	4.51
FRANCE CARPENTRAS FR3000 101	81	4.53	5.08	5.00	5.42	5.04	5.12	4.60		4.77	5.13		5.40	5.028	0.275	4.98
FRANCE CHATEAUCHINON FR4000 101	81	4.77	4.54	4.54	4.65	5.07	4.65	5.70	5.33	5.00	4.88	5.18	4.86	4.932	0.347	4.81
FRANCE GOURDON FR6000 101	81	5.82	5.22	5.15	5.93	5.58	5.55	5.20	4.63	5.16	4.98	5.85	4.96	5.335	0.406	5.15
FRANCE PHALSBOURG FR7000 101	81	4.24	4.28	4.84	5.23	4.85	5.86	4.40	6.28	6.33	6.20	6.05	4.32	5.239	0.853	4.71
FRANCE ROSTRENEN FR9000 101	81	5.57	5.08	5.30	4.77	4.50	5.56	6.25	6.60	5.03	5.30	6.04	5.00	5.416	0.621	4.95
GERMAN DEM REP NEUGLOBSOW GC7000 101	81	4.18	4.18	4.12	3.44	4.00	4.26	4.65	4.38	4.33	4.42	3.85	4.44	4.187	0.317	4.18
FED REP GERMANY BROTJACKLRIEGEL GE2000 101	81				4.30	4.30	4.40	4.40	5.10		4.80					
FED REP GERMANY DEUSELBACH GE3000 101	81	4.40	4.20	4.50	4.00	4.10	4.10	4.00	4.00	4.40	4.40			4.209	0.196	4.19
FED REP GERMANY LANGENBRUGGE GE6000 101	81	4.10	3.80	4.10		4.10	4.10	4.10	4.20	4.30	4.20			4.111	0.136	4.12

WORLD METEOROLOGICAL ORGANIZATION
PRECIPITATION NETWORK DATA
65302 - PH
81 - PRECIP GLASS ELECTRODE

UNITS - 61 - PH UNITS

	YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	YEARLY ARITHMETIC MEAN	STDEV	WEIGHTED MEAN
FED REP GERMANY SCHAUINSLAND GE9000 101	81	4.60	4.50	4.80	4.30	4.70	4.70	4.40	4.60	5.10	4.80			4.649	0.227	4.67
GREENLAND GODHAVN GL4000 101	81	4.80	4.10	LD	LD	LD	5.40	5.20	5.20	LD	LD	5.30				
HUNGARY KECSKEMET HU7000 101	81	6.69	6.43	6.40	7.30	5.99	6.01	7.25	7.35	6.51	5.99	6.49	5.36	6.497	0.614	5.88
INDONESIA JAKARTA ID6000 102	81	6.60	6.80	6.50	6.90	6.70	7.60	7.80	6.90	5.90	5.70	5.80	5.60	6.566	0.713	6.10
INDIA ALLAHABAD IN2000 101	81	7.60					7.19	7.80	7.60	7.70						
INDIA JODHPUR IN4000 101	81			8.10			7.90	7.70	7.90	7.60		7.20				
INDIA KODAIKANAL IN4200 101	81	6.60		7.30	6.80	6.50	7.25	7.40	6.85	6.60	5.95	5.60		6.684	0.578	6.21
INDIA MINICOY IN4500 101	81		7.25		6.95			6.47	6.61	6.75	6.62	6.38		6.718	0.298	6.62
INDIA MOHANBARI IN5000 101	81	6.05	7.10	8.00	7.10	6.70		6.50	6.30		6.42		6.80	6.774	0.577	6.48
INDIA NAGPUR IN5500 101	81	6.25		5.55		6.15	6.10		5.90	6.45	6.60			6.142	0.348	6.06
INDIA PUNE IN6000 101	81	7.40	7.60				6.41	6.76	6.72							
INDIA PORT BLAIR IN7000 101	81	6.47			6.15				6.46							
INDIA SRINAGAR IN8000 101	81	7.20	7.35	7.35	7.55	6.40	6.85	6.24	6.74					6.959	0.478	6.75

WORLD METEOROLOGICAL ORGANIZATION
PRECIPITATION NETWORK DATA
65302 - PH
51 - PRECIP GLASS ELECTRODE

UNITS - 61 - PH UNITS

	YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	YEARLY ARITHMETIC MEAN	YEARLY ARITHMETIC STDEV	YEARLY WEIGHTED MEAN
INDIA VISAKAPATNAM IN9000 101	81				6.65	7.42	6.91	6.50	6.10	5.92	6.30	6.08		6.559	0.474	6.12
ITALY MONTE LIMONE IT4000 101	81	6.90	6.60	5.90	4.30	5.70	5.10	4.50	4.10	4.00	4.10		4.70	5.081	1.041	4.31
ITALY S.MARIA DI LEUCA IT7000 101	81	5.10	4.80	4.60	5.50	4.50		5.30	6.60	5.10	5.40	4.50	4.70	5.116	0.599	4.50
ITALY TRAPANI/BIRGI IT8000 101	81	5.50	6.00	7.00	3.30	7.20	7.20			6.40	6.40	5.00	4.50	5.679	1.275	4.31
ITALY VERONA IT8500 101	81	4.70	7.50	4.20	4.50	4.30	4.40	4.20	4.50	4.10	4.20		4.50	4.645	0.963	4.28
ITALY VITERBO IT9000 101	81	5.20	5.80	5.30	5.50	5.60	4.50	5.20	5.70	5.10	4.60		6.50	5.363	0.559	4.86
JAPAN RYORI JA9000 101	81	4.90	4.80	4.90	4.80	4.60	4.80						4.70	4.814	0.069	4.80
JORDAN SHOUBAK JO9000 101	81			6.10												
MALAYSIA CAMERON HIGHLANDS MY2000 101	81	4.70	6.00	5.10	5.20	7.60	4.60	5.40	4.60	6.21	5.49	5.44	5.80	5.511	0.840	5.34
NETHERLANDS WITTEVEEN NL8000 101	81	4.58	4.41	4.60	4.90	4.27	4.33	4.08	4.29	4.25	4.55	4.51	4.67	4.486	0.255	4.45
NORWAY AS NO1000 101	81							4.50	7.40	6.10	4.50	4.60	5.15			
NORWAY BIRKENES NO2000 101	81							4.19	4.39	4.03	4.28	4.47	4.28			
NORWAY KISE NO5000 101	81							4.34	4.60	4.70	4.45	4.50	4.10			

WORLD METEOROLOGICAL ORGANIZATION
PRECIPITATION NETWORK DATA
65302 - PH
81 - PRECIP GLASS ELECTRODE

UNITS - 61 - PH UNITS

	YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	YEARLY ARITHMETIC MEAN	YEARLY ARITHMETIC STDEV	YEARLY WEIGHTED MEAN
POLAND JELENIA GORA PL5000 101	81	3.63			4.02	4.15	3.85	4.09	4.20	4.00	4.13	4.01	3.84	4.011	0.134	4.01
POLAND SUWALKI PL8000 101	81	4.21	4.66	4.16	5.11	5.05	4.72	4.49	4.45	4.51	4.31	4.53	4.45	4.554	0.294	4.50
PORTUGAL BRAGANCA PG2000 101	81				6.45	6.55	4.85	6.70	6.45	6.15			5.45	6.085	0.682	5.67
PORTUGAL FARO PG5000 101	81									6.70						
ROMANIA SEMENIC R01000 101	81			5.20												
ROMANIA SEMENIC R01000 102	81	5.50	7.50		4.90	6.90	3.80	4.50	3.80	3.90	6.70	6.80	4.10	5.309	1.426	4.28
ROMANIA FUNDATA R02000 102	81	5.10	4.60	5.10	4.10	7.90	3.90	5.90	5.10	5.70	6.50	5.80	5.10	5.399	1.082	4.54
ROMANIA TURIA R06000 101	81	6.00	5.10	4.20	3.90	8.50	3.60	5.90	5.50	6.50	4.10	5.60	6.10	5.416	1.371	4.37
ROMANIA TURIA R06000 102	81	5.20	4.40	4.30	4.10	7.20	3.60	6.90	5.60	6.50	6.90	6.50	6.10	5.608	1.255	4.60
ROMANIA RARAU R07000 102	81	3.70	4.50	3.70	4.40	3.50	8.20	5.60	4.20	3.60	5.00	6.40	5.50	4.691	1.390	4.00
ROMANIA STINA DE VALE R08000 101	81	5.40	3.50	3.80	4.10	4.50	6.50	7.20	7.20	4.10	5.60			5.189	1.400	4.21
ROMANIA STINA DE VALE R08000 102	81	5.30	4.10	5.60	4.40	4.70	4.20	6.10	6.70	4.40	4.90	5.60	6.40	5.199	0.887	4.63
ROMANIA PARING R09000 101	81				5.70											

WORLD METEOROLOGICAL ORGANIZATION
PRECIPITATION NETWORK DATA
65302 - PH
61 - PRECIP GLASS ELECTRODE

UNITS - 61 - PH UNITS

	YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	YEARLY ARITHMETIC MEAN	YEARLY STDEV	YEARLY WEIGHTED MEAN
ROMANIA PARING RO9000 102	61	4.50	4.40	3.90	3.20	4.60	5.10	5.00	5.30			5.30	5.10	4.699	0.549	4.55
SWEDEN BREDKALEN SW1000 101	61	5.25	5.49	4.95	5.29	5.01	5.14	4.64	5.69	6.29	4.83	5.34	5.39	5.275	0.432	4.98
SWEDEN VELEN SW9000 101	61	4.63	4.21	4.21	4.26	4.15	4.50	4.32	4.69	4.32	4.33	4.61	4.16	4.367	0.191	4.36
SWITZERLAND JUNGFRAUJOCH SZ4000 101	61									7.10	6.74	7.06	6.24			
SWITZERLAND PAYERNE SZ7000 101	61					5.10	4.40	4.50	4.60		4.70	4.60	5.90	4.828	0.521	4.76
UNITED KINGDOM DUMFRIES SCOTLAND UK2000 101	61	4.70	4.90	4.60	4.40	4.10	4.60	4.20	5.40	4.50	5.00	4.80	4.20	4.616	0.376	4.54
USSR IRKUTSK UR4000 101	61	7.00	6.60	6.30			6.80	5.90	6.70	6.60	6.90			6.599	0.354	6.32
USSR KURGAN UR5500 101	61	5.50	6.10	5.30	5.80	5.50	5.20	5.30		5.60	4.50	6.50	6.00	5.572	0.531	5.33
USSR NOVOPJATIGORSK UR6000 101	61	5.90	6.50	6.40	6.10	6.00	6.10	6.50	6.20	6.30	6.40	7.00	6.50	6.324	0.295	6.22
USSR SYKTIVKAR UR7000 101	61	5.50	5.00	5.20	5.80	6.00	5.50		5.80	5.60	5.60	5.60	5.30	5.536	0.287	5.53
USSR TURUKHANSK UR8000 101	61	6.20	6.30	5.20	6.40	5.50	5.60	7.10	6.70	6.20	6.40	5.90	5.80	6.108	0.535	5.83

WORLD METEOROLOGICAL ORGANIZATION
PRECIPITATION NETWORK DATA
65303 - CONDUCTIVITY
81 - PRECIP CONDUCTIVITY CELL

UNITS - 69 - US/CM-MICROSIEMENS/CM

														YEARLY			
														ARITHMETIC		GEOMETRIC	
	YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	MEAN	STDEV	MEAN	STDEV
CANADA EDSON CA3000 101	81	28	13	21	28	13	10	9	11	7	9	25	17	15.9	7.7	14.31	1.61
CANADA HAY RIVER CA5030 101	81	40	26	28	13		69	17	15	12		10	9	23.8	18.6	19.30	1.92
CANADA KELOWNA CA5050 101	81	13	3	9	10	7		8	12	8	8	8	12	8.9	2.6	8.36	1.48
CANADA MANIWAKI CA5100 101	81	61	17	39	37	41	32	53	21	36	33	29	29	35.6	12.2	33.74	1.42
CANADA MOULD BAY CA5400 101	81	23		20		15		36	54		92	53	119	51.5	36.9	40.86	2.09
CANADA MOUNT FOREST CA6000 101	81		39	37	34	41	21	31	65	26	19	22	38	33.9	12.9	31.92	1.43
CANADA PICKLE LAKE CA6050 101	81	12	13		10	18	9	14	6	10	11	12	4	11.0	3.5	10.37	1.47
CANADA SABLE ISLAND CA7500 101	81	260	190		174				12		64						
CANADA WYNYARD CA9000 101	81		43	95	35	33	14	9	7	24				32.5	26.3	23.71	2.37
CZECHOSLOVAKIA CHOPOK CZ2000 101	81	35	75	26	75	52	30	52	44	23	29	36	34	40.8	17.6	38.03	1.46
CZECHOSLOVAKIA SVRATOUCH CZ8000 101	81	31	48	48	45	53	26	33	37	32	26	33	39	37.9	8.8	37.02	1.25
DENMARK TANGE DA8000 101	81			25	27	76	27	57	44	31	70	180	44	58.1	46.5	47.64	1.85
IRELAND VALENTIA OBSERVAT EI8000 101	81	253	66	58	76	58	30	54	38	42	132	74	98	81.5	60.6	68.44	1.78

WORLD METEOROLOGICAL ORGANIZATION
PRECIPITATION NETWORK DATA
65303 - CONDUCTIVITY
81 - PRECIP CONDUCTIVITY CELL

UNITS - 69 - US/CM-MICROSIEMENS/CM

	YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	YEARLY ARITHMETIC MEAN	YEARLY ARITHMETIC STDEV	YEARLY GEOMETRIC MEAN	YEARLY GEOMETRIC STDEV
FINLAND JOKIOINEN FI5000 101	81	26	27	48	21	60	26	49	20	75	27	28	25	37.7	20.9	33.62	1.61
FINLAND SODANKYLA FI9000 101	81	5	9	14	17	67	23	17	14	26	14	12	10	19.2	16.0	15.56	1.77
FAEROE ISLANDS EJDE LORANSTATIO FO3000 101	81	9	14	16	4	8	2	2	3	5	15	10	7	7.6	5.1	6.26	2.10
FRANCE ABBEVILLE FR1000 101	81	67	45	34	50	24	44	38	52	24	40	44	93	46.2	18.8	43.18	1.46
FRANCE CARPENTRAS FR3000 101	81	21	26	16	28	24	22	36		22	21		14	23.0	6.1	22.27	1.30
FRANCE CHATEAUCHINON FR4000 101	81	10	24	17	29	9	15	16	11	12	9	14	13	14.9	6.0	13.57	1.44
FRANCE GOURDON FR6000 101	81	16	13	13	29	14	12	18	28	15	10	34	19	18.4	7.7	17.14	1.47
FRANCE PHALSBOURG FR7000 101	81	26	38	21	41	19	25	31	27	20	10	25	29	26.0	8.3	24.59	1.44
FRANCE ROSTRENEN FR9000 101	81	29	24	21	33	24	25	22	38	12	16	52	30	27.1	10.5	25.41	1.46
GERMAN DEM REP NEUGLOBSOW GC7000 101	81	42	58	36	90	52	38	27	30	31	42	42	27	42.9	17.5	40.47	1.41
FED REP GERMANY BROTJACKLRIEGEL GE2000 101	81				42	29	32	25	21		13						
FED REP GERMANY DEUSELBACH GE3000 101	81	26	38	24	51	37	45	43	56	25	21			36.5	12.2	34.71	1.41
FED REP GERMANY LANGENBRUGGE GE6000 101	81	45	100	130		43	43	60	45	115	110			76.7	36.2	65.31	1.61

WORLD METEOROLOGICAL ORGANIZATION
PRECIPITATION NETWORK DATA
65303 - CONDUCTIVITY
81 - PRECIP CONDUCTIVITY CELL

UNITS - 69 - US/CP-MICROSIEMENS/CM

														YEARLY			
														ARITHMETIC		GEOMETRIC	
	YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	MEAN	STDEV	MEAN	STDEV
FED REP GERMANY SCHAUINSLAND GE9000 101	81	21	24	16	42	15	32	29	24	16	11			23.1	9.2	21.62	1.48
GREENLAND GODHAVN GL4000 101	81	4	8	LD	LD	LD	3	1	1	LD	LD	6					
HUNGARY KECSKEMET HU7000 101	81	67	92	29	114	37	31	55	99	34	44	66	21	57.4	30.5	50.32	1.71
INDONESIA JAKARTA ID6000 102	81	33	47	40	67	55	93	62	87	125	69	51	36	65.5	27.5	61.60	1.51
INDIA ALLAHABAD IN2000 101	81	64					26	69	10	12							
INDIA JODHPUR IN4000 101	81			123			41	33	33	22		69					
INDIA KODAIKANAL IN4200 101	81	8		7	17	6	21	15	8	5	4	8	9	9.9	5.3	8.79	1.65
INDIA MINICOY IN4500 101	81		33		25	25	53	48	27	30	29	71		37.9	16.0	35.52	1.45
INDIA MOHANBARI IN5000 101	81	37	63	32	21	15		14	8	10	13		16	22.9	16.9	18.73	1.90
INDIA NAGPUR IN5500 101	81	14		13		43	22		7	5	10			16.4	13.1	13.10	2.03
INDIA PUNE IN6000 101	81	53	44		38	51	25	26	26	14	14			32.2	14.8	29.01	1.65
INDIA PORT BLAIR IN7000 101	81	53	55		23	38	57	29	42	60	27	24	21	38.9	15.0	36.21	1.49
INDIA SRINAGAR IN8000 101	81	34	33	34	97	62	36	28	31					44.2	23.8	40.30	1.53

WORLD METEOROLOGICAL ORGANIZATION
PRECIPITATION NETWORK DATA
65303 - CONDUCTIVITY
81 - PRECIP CONDUCTIVITY CELL

UNITS - 69 - US/CM-MICROSIEMENS/CM

	YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	YEARLY ARITHMETIC MEAN	YEARLY ARITHMETIC STDEV	YEARLY GEOMETRIC MEAN	YEARLY GEOMETRIC STDEV
INDIA VISAKAPATNAM IN9000 101	81				144	129	116	65	112	37	74	142		102.4	39.0	94.14	1.60
ITALY MONTE CIMONE IT4000 101	81	64	75	46	127	99	16	36	37	44	72		36	59.4	32.0	52.04	1.73
ITALY S.MARIA DI LEUCA IT7000 101	81	65	56	77	75	111		21	124	35	32	75	89	69.0	32.1	61.23	1.73
ITALY TRAPANI/BIRGI IT8000 101	81	344	1008	175	345	95	1090			849	222	78	106	431.1	395.7	283.70	2.69
ITALY VERONA IT8500 101	81	41	379	71	52	31	34	28	29	39	31		49	71.2	102.8	47.70	2.10
ITALY VITERBO IT9000 101	81	125	355	117	52	70	31	133	103	29	49		90	104.9	90.8	81.30	2.06
JAPAN RYORI JA9000 101	81	21	16	9	16	21	13						25	17.8	5.3	17.06	1.39
JORDAN SHOUBAK JO9000 101	81			LD													
MALAYSIA CAMERON HIGHLANDS MY2000 101	81	13	5	7	5	8	6	4	10	3	3	5	4	6.1	2.9	5.53	1.57
NETHERLANDS WITTEVEEN NL8000 101	81	51	40	29	70	62	42	58	49	40	36	60	37	46.9	12.7	45.29	1.32
NORWAY AS NO1000 101	81							21	166	30	30	23	33				
NORWAY KISE NO5000 101	81							28	19	32	23	7	58				
POLAND JELENIA GORA PL5000 101	81	68			60	59	100	55	42	73	59	59	78	69.2	17.6	67.22	1.29

WORLD METEOROLOGICAL ORGANIZATION
PRECIPITATION NETWORK DATA
65303 - CONDUCTIVITY
81 - PRECIP CONDUCTIVITY CELL

UNITS - 65 - US/CM-MICROSIEMENS/CM

	YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	YEARLY ARITHMETIC MEAN	YEARLY ARITHMETIC STDEV	YEARLY GEOMETRIC MEAN	YEARLY GEOMETRIC STDEV
POLAND SUWALKI PL8000 101	81	72	37	60	45	30	24	34	32	32	32	33	33	36.7	13.6	34.92	1.36
PORTUGAL BRAGANCA P02000 101	81				20	21				21							
PORTUGAL FARO P05000 101	81									217							
ROMANIA SEMENIC R01000 101	81			37	16												
ROMANIA SEMENIC R01000 102	81	45	6		16	39	51	61	58	32	16	140	30	45.2	35.8	35.04	2.16
ROMANIA FUNDATA R02000 102	81	52	74	32	36	45	79	41	36	33	56	25	44	46.2	16.5	43.80	1.40
ROMANIA TURIA R06000 101	81	30	33	14	15	17	26	16	18	26	19	17	39	22.5	6.1	21.28	1.40
ROMANIA TURIA R06000 102	81	30	61	29	37	28	15	33	32	25	51	40	48	35.7	12.5	33.66	1.44
ROMANIA RARAU R07000 102	81	26	17	43	31	35	25	15	27	44	27	39	36	30.4	9.3	28.96	1.40
ROMANIA STINA DE VALE R08000 101	81	25	15	23	25	20	52	21	18	26	10			23.5	11.1	21.59	1.52
ROMANIA STINA DE VALE R08000 102	81	57	21	25	21	19	30	21	23	28	17	20	13	24.5	11.1	22.95	1.43
ROMANIA PARING R09000 101	81				15												
ROMANIA PARING R09000 102	81	20	22	34	17	25	49	32	19			28	22	26.7	9.5	25.50	1.37

WORLD METEOROLOGICAL ORGANIZATION
PRECIPITATION NETWORK DATA
65303 - CONDUCTIVITY
81 - PRECIP CONDUCTIVITY CELL

UNITS - 69 - US/CM-MICROSIEMENS/CM

	YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	YEARLY ARITHMETIC MEAN	YEARLY ARITHMETIC STDEV	YEARLY GEOMETRIC MEAN	YEARLY GEOMETRIC STDEV
SWEDEN BREDKALEN SW1000 101	81	7	11	10	15	34	8	15	5	24	11	5	7	12.6	6.5	11.66	1.60
SWEDEN VELEN SW9000 101	81	14	38	32	35	42	19	30	13	28	29	16	39	27.9	10.1	25.56	1.51
UNITED KINGDOM DUMFRIES SCOTLAND UK2000 101	81	32	25	23	41	50	27	20	21	19	15	24	39	28.0	10.4	26.39	1.42
USSR IRKUTSK UR4000 101	81	40	18	21			25	8	16	13	19			20.0	9.5	18.16	1.60
USSR KURGAN UR5500 101	81	61	55	75	41	17	25	15		13	22	29	19	33.8	21.1	28.57	1.82
USSR NOVOPJATIGORSK UR6000 101	81	13	62	24	20	16	16	20	20	20	19	32	17	23.2	13.1	21.18	1.49
USSR SYKTIVKAR UR7000 101	81	13	27	32	66	53	16	16	20	13	13	19	13	25.0	17.3	21.23	1.75
USSR TURUKHANSK UR8000 101	81	18	25	23	31	19	13	40	24	12	14	14	15	20.6	8.4	19.30	1.45

WORLD METEOROLOGICAL ORGANIZATION
PRECIPITATION NETWORK DATA
65306 - STRONGACID
81 - PRECIP COULOMETRICTITRATION

UNITS - 67 - UEQ-(MICRO-EQUIV/L)

														YEARLY			
														ARITHMETIC		GEOMETRIC	
	YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	MEAN	STDEV	MEAN	STDEV
FINLAND JOKIOINEN FI500L 101	81	44.00	49.00	96.00	18.00	63.00	37.00	86.00	42.00	120.00	51.00	56.00	48.00	59.166	28.296	53.21	1.63
FINLAND SODANKYLA FI9000 101	81	12.00	20.00	23.00	40.00	142.00	49.00	32.00	29.00	52.00	29.00	29.00	18.00	39.583	34.352	31.52	1.67
NETHERLANDS WITTEVEEN NL800L 101	81	26.00	45.00	33.00	28.00	81.00	53.00	89.00	51.00	55.00	36.00	36.00	25.00	44.646	21.563	39.67	1.70

WORLD METEOROLOGICAL ORGANIZATION
PRECIPITATION NETWORK DATA
65311 - SODIUM
82 - PRECIP ATOMIC ABSORPTION

UNITS - 62 - MG/L-MILLIGRAMS/LITER

														YEARLY			
														ARITHMETIC		GEOMETRIC	
	YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	MEAN	STDEV	MEAN	STDEV
CZECHOSLOVAKIA CHOPOK CZ2000 101	81	0.52	0.54	0.26	0.53	0.18	0.08	0.16	0.08	0.39	0.30	0.31	0.34	0.307	0.165	0.25	1.95
CZECHOSLOVAKIA SVRATOUCH CZ8000 101	81	0.48	0.46	0.21	0.16	0.14	0.10	0.10	0.16	0.20	0.25	0.45	0.40	0.260	0.149	0.22	1.79
FINLAND JOKIOINEN FI5000 101	81	0.24	0.17	0.45	0.50	0.68	0.36	0.37	0.07	0.34	0.19	0.20	0.33	0.324	0,166	0,28	1.82
FINLAND SODANKYLA FI9000 101	81	0.13	0.09	0.40	0.15	0.36	0.22	0.30	0.25	0.08	0.14	0.39	0.07	0.214	0.122	0,18	1.67
FRANCE ABBEVILLE FR1000 101	81	6.22	2.59	1.69	2.19	0.65	1.22	2.57	1.76	2.39	4.02	3.84	5.36	2.891	1,650	2.48	1.79
FRANCE CARPENTRAS FR3000 101	81	0.42	0.66	0.01	0.46	0.49	0.47	1.28		2.84	0.73		0.43	0.778	0.791	0,44	4,33
FRANCE CHATEAUCHINON FR4000 101	81	0.61	0.32	0.28	0.93	0.22	0.17	0.47	0.38	1.69	0.37	0.65	0.36	0.554	0.426	0,44	1.91
FRANCE GOURDON FR6000 101	81	0.95	0.71	0.36	0.87	0.66	0.30	0.59	0.60	0.46	0.41	2.74	1.01	0.804	0,650	0.66	1.79
FRANCE PHALSBOURG FR7000 101	81	1.20	1.57	0.95	0.23	0.34	0.43	0.49	0.35	0.33	0.21	1.31	0.35	0.646	0,476	0.51	2.01
FRANCE ROSTRENEN FR9000 101	81	3.31	1.10	1.08	2.48	1.26	2.43	1.92	5.02	2.86	2.61	7.31	2.06	2.786	1,792	2.37	1.78
FED REP GERMANY BROTJACKLRIEGEL GE2000 101	81				0.05	0.02	0.04	0.03	0.09	0.01	0.01			0.035	0.028	0.02	2.27
FED REP GERMANY DEUSELBACH GE3000 101	81	0.85	0.52	0.35	0.06	0.10	0.16	0.14	0.05	0.08	0.14			0.246	0.257	0,16	2.46
FED REP GERMANY LANGENBRUGGE GE6000 101	81	1.64	1.20	0.24		0.26	0.22	0.37	0.34	0.09	0.48			0.537	0.523	0,37	2.42

WORLD METEOROLOGICAL ORGANIZATION
PRECIPITATION NETWORK DATA
65311 - SODIUM
82 - PRECIP ATOMIC ABSORPTION

UNITS - 62 - MG/L-MILLIGRAMS/LITER

														YEARLY			
														ARITHMETIC		GEOMETRIC	
	YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	MEAN	STDEV	MEAN	STDEV
FED REP GERMANY SCHAUINSLAND GE9000 101	81	0.54	0.09	0.18	0.20	0.01	0.06	0.08	0.03	0.01	0.01			0.120	0.162	0.05	4.07
ITALY MONTE LIMONE IT4000 101	81	1.00	2.20	2.20	4.00	5.70	0.30	0.80	0.30	0.40	3.80		2.00	2.063	1.761	1.33	2.89
ITALY S.MARIA DI LEUCA IT7000 101	81	7.50	4.60	7.80	4.70	6.40		0.90	9.30	1.60	3.80	6.90	10.70	5.636	3.049	4.78	2.14
ITALY TRAPANI/BIRGI IT8000 101	81	48.40	11.40	17.50	5.00	3.40	2.80				27.30	6.70	10.70	14.777	14.127	10.11	2.54
ITALY VERONA IT8500 101	81	0.20	6.40	0.50	0.80	0.20	0.30	0.10	0.10	0.20	0.40		0.70	0.859	1.839	0.36	3.24
ITALY VITERBO IT9000 101	81	9.10	33.00	9.10	3.70	4.80	1.30	11.30	3.30	1.60	4.30		7.50	8.090	8,681	5.43	2.50
NETHERLANDS WITTEVEEN NL8000 101	81	4.51	1.52	0.53	2.21	0.48	0.94	0.30	1.15	0.58	1.91	4.74	1.99	1.757	1,435	1.28	2.35
POLAND JELENIA GORA PL5000 101	81	0.89			0.33	0.55	0.83	0.26	0.35	0.49	0.50	0.58	0.45	0.522	0.204	0,48	1,47
POLAND SUWALKI PL8000 101	81	0.83	2.51	0.31	0.46	0.10	0.06	0.06	0.08	0.07	0.10	0.28	0.11	0.414	0,698	0.18	3.28
SWITZERLAND JUNGFRAUJOCH SZ4000 101	81	0.48	0.17	0.82	0.50	0.52	0.57	1.20	0.89	0.50	0.34	0.36	0.43	0.564	0.279	0.30	1.65
SWITZERLAND PAYERNE SZ7000 101	81	0.17	0.14	0.16		0.16	0.14	0.11	0.11		0.20	0.45	0.39	0.202	0,118	0.18	1.61
UNITED KINGDOM DUMFRIES SCOTLAND UK2000 101	81	3.20	1.50	0.80	0.80	1.20	0.80	0.70	0.50	1.20	1.60	2.20	0.60	1.258	0.765	1.08	1,73

WORLD METEOROLOGICAL ORGANIZATION
PRECIPITATION NETWORK DATA
65311 - SODIUM
83 - PRECIP FLAME EMISSION

UNITS - 62 - MG/L-MILLIGRAMS/LITER

														YEARLY			
														ARITHMETIC		GEOMETRIC	
	YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	MEAN	STDEV	MEAN	STDEV
CANADA EDSON CA3000 101	81	1.57	0.71	0.30	0.23	0.19	0.12	0.04	0.23	0.09	0.17	0.36	0.30	0.359	0.418	0.23	2.56
CANADA HAY RIVER CA5030 101	81	3.97	0.29	0.63	0.31		0.53	0.26	0.06	0.18		0.31	0.23	0.696	1,169	0.35	2.97
CANADA KELOWNA CA5050 101	81	0.12	0.11	0.05	0.17	0.11		0.24	0.28	0.27	0.30	0.11	0.21	0.179	0.085	0.15	1.74
CANADA MANIWAKI CA5100 101	81	0.97	0.13	0.53	0.23	0.08	0.25	0.27	0.05	0.23	0.04	0.06	0.16	0.251	0.263	0.16	2.61
CANADA MOULD BAY CA5400 101	81	2.01		1.62		0.06		2.00	2.77		11.29	5.24	15.04	5.126	5.216	3.34	2.66
CANADA MOUNT FOREST CA6000 101	81		1.00	0.57	0.15	0.04	0.04	0.02	0.23	0.04	0.03	0.09	0.88	0.280	0,363	0.11	4.14
CANADA PICKLE LAKE CA6050 101	81	0.54	0.24		0.14	0.11	0.13	0.08	0.13	0.14	0.28	0.17	0.17	0.193	0.128	0.16	1.67
CANADA SABLE ISLAND CA7500 101	81	19.90	25.64		22.08				1.56		25.36						
CANADA WYNYARD CA9000 101	81		0.85	0.76	0.41	0.35	0.23	0.06	0.09	0.34				0.386	0,287	0.28	2.55
DENMARK TANGE DA8000 101	81			0.70	1.40	0.65	0.10	0.60	0.30	0.50	6.00	26.00	4.00	4.024	7,955	1.13	5.03
IRELAND VALENTIA OBSERVAT EI8000 101	81	40.00	7.30	7.10	6.20	6.60	3.90	7.30	4.50	4.60	17.30	6.90	12.00	10.474	10.006	2.19	1,91
FAEROE ISLANDS EJDE LORANSTATIO FO3000 101	81	12.00	15.50	25.50	5.00	10.00	3.30	3.10	3.40	5.00	24.00	15.00	8.00	10.616	7.648	2.37	2,14
GERMAN DEM REP NEUGLOBSOW GC7000 101	81	0.94	0.83	0.16	0.72	0.46	1.38	0.18	0.24	0.14	0.50	1.35	0.25	0.595	0.448	0.44	2.29

WORLD METEOROLOGICAL ORGANIZATION
PRECIPITATION NETWORK DATA
65311 - SODIUM
83 - PRECIP FLAME EMISSION

UNITS - 62 - MG/L-MILLIGRAMS/LITER

	YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	YEARLY ARITHMETIC MEAN	YEARLY ARITHMETIC STDEV	YEARLY GEOMETRIC MEAN	YEARLY GEOMETRIC STDEV
GREENLAND GODHAVN GL4000 101	81	12.00	6.50	LD	LD	LD	3.00	1.10	1.20	LD	LD	10.00					
HUNGARY KECSKEMET HU7000 101	81	2.57	2.35	0.40	1.60	0.32	0.38	0.40	0.90	0.49	0.92	2.00	0.41	1.078	0,655	0.80	2.23
JAPAN RYORI JA9000 101	81	3.47	1.85		1.51	0.97	0.24	0.37	6.05				3.50	2,244	1.578	1.43	3.08
JORDAN SHOUBAK JO9000 101	81			4.60													
MALAYSIA CAMERON HIGHLANDS MY2000 101	81	0.30	0.10	0.10	0.20	0.30	0.20	0.10	0.10	0.10	0.10	0.10	0.10	0.149	0.079	0.13	1,58
NORWAY AS NO1000 101	81							0.20	5.10	1.20	1.00	1.10	1.60				
NORWAY BIRKENES NO2000 101	81							0.10	0.80	1.50	1.20	1.30	0.50				
NORWAY KISE NO5000 101	81							0.10	0.10	0.50	0.20	0.10	0.40				
ROMANIA SEMENIC RO1000 101	81			0.60													
ROMANIA SEMENIC RO1000 102	81	0.90	0.10		0.50	1.20	1.20	0.60	0.60	0.40	3.20	4.60	0.60	1.281	1,370	0.81	2.78
ROMANIA FUNDATA RO2000 102	81	8.00	11.20	0.60	1.00	1.60	1.80	1.60	0.70	0.80	2.40	0.80	0.20	2.574	3.409	1.40	3.03
ROMANIA TURIA RO6000 101	81	9.60	8.00	0.20	0.30	0.60	0.40	0.80	1.40	1.20	0.30	0.40	1.20	2.049	3,196	0.90	3.43
ROMANIA TURIA RO6000 102	81	6.40	8.00	0.30	0.30	0.60	0.80	2.20	1.10	0.80	1.40	1.80	1.60	2.108	2.472	1.26	2.80

WORLD METEOROLOGICAL ORGANIZATION
PRECIPITATION NETWORK DATA
65311 - SODIUM
82 - PRECIP FLAME EMISSION

UNITS - 62 - MG/L-MILLIGRAMS/LITER

														YEARLY			
														ARITHMETIC		LOGARITHMIC	
	YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	MEAN	STDEV	MEAN	STDEV
ROMANIA RARAU RO7000 102	81	6.00	8.00	0.60	3.50	1.00	0.40	0.60	0.60	0.30	1.00	0.90	0.80	1.956	2.030	1.05	2.75
ROMANIA STINA DE VALE RO8000 101	81	11.20	4.80	0.50	0.30	0.80	0.60	1.30	1.20	0.30	0.50			2.149	3.449	0.99	3.26
ROMANIA STINA DE VALE RO8000 102	81	40.00	8.00	0.60	0.30	0.80	1.00	0.90	0.80	0.40	0.60	0.90	0.50	4.599	11.344	1.18	3.62
ROMANIA PARING RO9000 101	81				0.30												
ROMANIA PARING RO9000 102	81	8.00	0.40	0.70	0.30	0.20	0.30	0.40	0.60			1.00	0.90	1.279	2.376	0.62	2.81
SWEDEN BREDKALEN SW1000 101	81	0.18	0.66	0.07	0.33	0.15	0.19	0.04	0.03	0.18	0.03	0.04	0.04	0.163	0.196	0.09	2.94
SWEDEN VELEN SW9000 101	81	0.36	0.72	0.16	0.30	0.10	0.10	0.22	0.06	0.12	0.64	0.46	0.52	0.314	0.225	0.23	2.27
USSR IRKUTSK UR4000 101	81		0.69	0.66			1.10	0.30	0.97	0.30	1.00			0.702	0.309	0.63	1.70
USSR KURGAN UR5500 101	81	0.67	0.80	0.48	0.95	0.49	0.90	0.39		0.10	0.10	1.55	0.40	0.639	0.426	0.48	2.42
USSR NOVOPJATIGORSK UR6000 101	81	0.30	2.20	0.63	0.35	0.30	0.28	0.48	0.42	0.40	0.40	1.00	0.45	0.600	0.540	0.48	1.60
USSR SYKTIVKAR UR7000 101	81	0.30	0.45	0.40	2.40	0.70	0.32	0.70	0.72	0.40	0.52	0.88	0.35	0.678	0.573	0.55	1.78
USSR TURUKHANSK UR8000 101	81	1.36	3.00	1.65	2.60	0.40	0.20	0.52	0.32	0.39	0.82	0.81	1.10	1.097	0.911	0.75	2.34

WORLD METEOROLOGICAL ORGANIZATION
PRECIPITATION NETWORK DATA
65312 - POTASSIUM
82 - PRECIP ATOMIC ABSORPTION

UNITS - 62 - MG/L-MILLIGRAMS/LITER

														YEARLY			
														ARITHMETIC		GEOMETRIC	
	YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	MEAN	STDEV	MEAN	STDEV
CZECHOSLOVAKIA CHOPOK CZ2000 101	81	0.50	0.39	0.17	0.33	0.16	0.10	0.25	0.14	0.56	0.29	0.22	0.18	0.274	0.145	0.24	1.69
CZECHOSLOVAKIA SVRATOUCH CZ8000 101	81	0.13	0.13	0.10	0.12	0.11	0.20	0.10	0.28	0.18	0.33	0.26	0.27	0.184	0.081	0.16	1.55
DENMARK TANGE DA8000 101	81			0.03	0.17	1.02	0.17	0.71	0.35	0.14	1.80	0.99	2.06	0.747	0.718	0.40	3.83
FINLAND JOKIOINEN FI5000 101	81	0.06	0.10	0.14	0.36	0.27	0.24	0.12	0.06	0.38	0.04	0.12	0.10	0.207	0.209	0.14	2.35
FINLAND SODANKYLA FI9000 101	81	0.06	LD	0.05	0.12	0.15	0.06	0.14	0.12	0.06	0.06	0.18	0.05	0.097	0.046	0.08	1.61
FAEROE ISLANDS EJDE LORANSTATIO FO3000 101	81	0.40	0.61	0.90	0.17	0.40	0.16	0.14	0.30	0.18	0.94	0.63	0.26	0.425	0.283	0.34	1.96
FRANCE ABBEVILLE FR1000 101	81	0.32	0.34	0.26	0.32	0.44	0.41	0.26	1.35	1.11	0.22	0.27	0.35	0.476	0.363	0.35	1.76
FRANCE CARPENTRAS FR3000 101	81	0.05	0.40	0.26	0.23	0.14	0.07	0.30		1.05	0.41		0.20	0.312	0.286	0.22	2.42
FRANCE CHATEAUCHINON FR6000 101	81	0.01	0.26	0.10	0.37	0.08	0.25	0.39	0.23	0.29	0.07	0.22	0.07	0.194	0.125	0.13	2.84
FRANCE GOURDON FR6000 101	81	0.14	0.06	0.09	0.30	0.10	0.08	0.10	0.57	0.12	0.09	0.55	0.13	0.194	0.181	0.14	2.10
FRANCE PHALSBOURG FR7000 101	81	0.04	0.01	0.22	0.42	0.19	0.84	0.40	0.51	0.32	0.09	0.58	0.04	0.304	0.255	0.17	3.83
FRANCE ROSTRENEN FR9000 101	81	0.19	0.13	0.14	0.17	0.09	0.65	0.36	0.63	0.07	0.10	0.59	0.23	0.279	0.221	0.21	2.19
FED REP GERMANY BROTJACKLRIEGEL GE2000 101	81				0.13	0.08		0.06	0.15	0.17	0.09						

WORLD METEOROLOGICAL ORGANIZATION
PRECIPITATION NETWORK DATA
65312 - POTASSIUM
82 - PRECIP ATOMIC ABSORPTION

UNITS - 62 - MG/L-MILLIGRAMS/LITER

														YEARLY			
														ARITHMETIC		GEOMETRIC	
	YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	MEAN	STDEV	MEAN	STDEV
FED REP GERMANY DEUSELBACH GE3000 101	81	0.06	0.06	0.02	0.05	0.04	0.07	0.09	0.05	0.05	0.02			0.052	0.023	0.04	1.67
FED REP GERMANY LANGENBRUGGE GE6000 101	81	0.12	0.13	0.01		0.19	0.06	0.08	0.02	0.10	0.14			0.094	0.058	0.06	2.66
FED REP GERMANY SCHAUINSLAND GE9000 101	81	0.05	0.03	0.01	0.14	0.02	0.02	0.08	0.12	0.08	0.05			0.059	0.044	0.04	2.36
GREENLAND GODHAVN GL4000 101	81	0.50	0.35	LD	LD	LD	0.25	0.07	0.15	LD	LD	0.29					
ITALY MONTE CIMONE IT4000 101	81	0.30	1.20	0.40	0.50	0.90	0.30	0.30	0.20	0.10	0.50		0.30	0.454	0.323	0.36	1.97
ITALY S.MARIA DI LEUCA IT7000 101	81	0.30	0.30	0.80	0.30	1.00		0.10		0.10	0.10	0.40	0.40	0.379	0.301	0.26	2.28
ITALY TRAPANI/BIRGI IT8000 101	81	1.90	0.90	1.20	0.40	0.40	0.80				1.20	0.40	0.50	0.855	0.510	0.73	1.78
ITALY VERONA IT8500 101	81	0.10	LD	0.10	0.10	0.10	0.20	0.10	0.10	0.10	0.10		0.20	0.119	0.042	0.11	1.33
ITALY VITERBO IT9000 101	81	1.30	2.70	1.20	0.30	0.40	0.30	0.60	1.20	0.20	0.30		0.80	0.863	0.735	0.63	2.27
JAPAN RYORI JA9000 101	81	0.11	0.18		0.04	0.01	LD	0.01	0.34				0.31	0.149	0.133	0.07	4.44
NETHERLANDS WITTEVEEN NL8000 101	81	0.20	0.17	0.10	0.27	0.11	0.06	0.06	0.16	0.09	0.18	0.21	0.12	0.142	0.062	0.12	1.59
NORWAY AS NO1000 101	81							0.23	10.70	0.63	0.84	0.36	1.27				
NORWAY BIRKENES NO2000 101	81							0.12	1.08	0.16	0.19	0.08	0.09				

WORLD METEOROLOGICAL ORGANIZATION
PRECIPITATION NETWORK DATA
653_{12} - POTASSIUM
82 - PRECIP ATOMIC ABSORPTION

UNITS - 6_2 - MG/L-MILLIGRAMS/LITER

														YEARLY			
														ARITHMETIC		GEOMETRIC	
	YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	MEAN	STDEV	MEAN	STDEV
NORWAY KISE NO5000 101	81							0.09	0.29	0.53	0.10	0.02	0.10				
POLAND JELENIA GORA PL5000 101	81	0.39			0.50	0.38	0.41	0.21	0.16	0.32	0.16	0.18	0.18	0.292	0.121	0.27	1.51
POLAND SUWALKI PL8000 101	81	0.22	0.16	0.10	0.20	0.10	0.04	0.06	0.04	0.09	0.04	LD	0.02	0.097	0.068	0.07	2.15
SWITZERLAND JUNGFRAUJOCH SZ4000 101	81	0.37	0.21	0.52	0.92	0.38	0.32	0.61	0.63	0.51	0.26	0.31	0.30	0.444	0.202	0.40	1.53
SWITZERLAND PAYERNE SZ7000 101	81	0.40	0.26	0.09		0.20	0.18	0.12	0.34		0.18	0.12	0.25	0.213	0.099	0.19	1.61
UNITED KINGDOM DUMFRIES SCOTLAND UK2000 101	81	0.10	0.20	LD	0.30	0.10	0.40	0.20	0.20	0.20	0.20	0.30	0.10	0.209	0.094	0.18	1.60

WORLD METEOROLOGICAL ORGANIZATION
PRECIPITATION NETWORK DATA
65312 - POTASSIUM
83 - PRECIP FLAME EMISSION

UNITS - 62 - MG/L-MILLIGRAMS/LITER

	YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	YEARLY ARITHMETIC MEAN	YEARLY ARITHMETIC STDEV	YEARLY GEOMETRIC MEAN	YEARLY GEOMETRIC STDEV
CANADA EDSON CA3000 101	81	0.26	0.07	0.09	0.11	0.08	0.17	0.06	0.04	0.01	0.08	0.21	0.18	0.113	0.075	0.08	2.40
CANADA HAY RIVER CA5030 101	81	0.05	0.12	0.39	0.20		0.45	0.17	0.10	0.12		0.24	0.15	0.198	0.126	0.16	1.91
CANADA KELOWNA CA5050 101	81	0.05	LD	0.03	0.06	0.04		0.83	0.12	0.08	0.09	0.07	0.06	0.142	0.242	0.08	2.49
CANADA MANIWAKI CA5100 101	81	0.14	0.05	0.05	0.07	0.05	0.18	0.14	0.04	0.04	0.03	0.02	0.05	0.071	0.051	0.05	1.93
CANADA MOULD BAY CA5400 101	81	0.62		0.30		0.19		0.64	1.95		0.77	0.48	1.26	0.776	0.574	0.61	2.10
CANADA MOUNT FOREST CA6000 101	81		0.07	0.04	0.06	0.03	0.04	0.06	0.06	0.04	0.02	0.04	0.07	0.048	0.016	0.04	1.47
CANADA PICKLE LAKE CA6050 101	81	0.10	0.08		0.06	0.14	0.14	0.12	0.10	0.06	0.33	0.04	0.02	0.108	0.083	0.08	2.08
CANADA SABLE ISLAND CA7500 101	81	1.33	0.86		0.77				0.07		1.00						
CANADA WYNYARD CA9000 101	81		0.47	0.42	0.49	0.31	0.13	0.09	0.05	0.20				0.269	0.176	0.20	2.32
IRELAND VALENTIA OBSERVAT EI8000 101	81	1.60	0.40	0.81	3.70	0.62	0.29	0.36	0.60	0.25	0.74	0.50	0.64	0.892	0.954	0.65	2.11
GERMAN DEM REP NEUGLOBSOW GC7000 101	81	0.20	0.20	0.20	0.15	0.45	0.10	0.10	0.35	0.30	0.45	0.30	0.25	0.254	0.119	0.22	1.66
HUNGARY KECSKEMET HU7000 101	81	0.38	1.33	0.25	0.53	0.13	0.25	0.28	0.40	0.22	0.20	1.15	0.32	0.453	0.383	0.35	1.98
JORDAN SHOUBAK JO9000 101	81			0.39													

WORLD METEOROLOGICAL ORGANIZATION
PRECIPITATION NETWORK DATA
65312 - POTASSIUM
83 - PRECIP FLAME EMISSION

UNITS - 6_2 - MG/L-MILLIGRAMS/LITER

														YEARLY			
														ARITHMETIC		GEOMETRIC	
	YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	MEAN	STDEV	MEAN	STDEV
MALAYSIA CAMERON HIGHLANDS MY2000 101	81	0.10	0.10	0.10	0.10	0.10	0.10	LD	0.10	LD	LD	0.10	0.10	0.099	0.000	0.10	1.00
ROMANIA SEMENIC RO1000 101	81			0.70	LD												
ROMANIA SEMENIC RO1000 102	81	0.30	0.60		LD	0.60	0.40	0.50	0.40	0.10	0.20	0.80	0.10	0.399	0.230	0.32	2.06
ROMANIA FUNDATA RO2000 102	81	0.90	1.30	0.40	0.30	0.90	0.90	0.60	0.50	0.40	2.00	0.20	0.10	0.708	0.536	0.53	2.30
ROMANIA TURIA RO6000 101	81	0.10	0.10	LD	LD	0.40	LD	0.40	0.50	0.30	LD	0.10	0.60	0.312	0.155	0.24	2.17
ROMANIA TURIA RO6000 102	81	0.10	0.40	0.10	0.10	0.40	0.30	1.10	0.40	1.70	2.80	0.50	0.30	0.683	0.613	0.39	2.95
ROMANIA RARAU RO7000 102	81	0.40	0.40	0.60	0.20	0.20	0.50	0.30	0.40	0.10	0.20	0.10	0.50	0.324	0.165	0.27	1.84
ROMANIA STINA DE VALE RO8000 101	81	0.60	0.10	0.40	LD	0.40	LD	0.50	0.30	0.10	LD			0.342	0.190	0.28	2.09
ROMANIA STINA DE VALE RO8000 102	81	2.10	0.40	0.60	0.10	0.30	0.10	0.40	0.50	0.10	0.20	0.40	0.10	0.441	0.550	0.28	2.55
ROMANIA PARING RO9000 101	81				LD												
ROMANIA PARING RO9000 102	81	0.40	0.40	0.50	0.10	0.10	0.10	0.20	0.40			0.30	0.40	0.289	0.152	0.24	1.94
SWEDEN BREDKALEN SW1000 101	81	0.02	0.02	0.02	0.11	0.92	0.08	0.04	0.04	0.21	0.03	LD	0.11	0.145	0.263	0.06	3.29
SWEDEN VELEN SW9000 101	81	0.01	0.06	0.02	0.05	0.10	0.03	0.09	LD	0.04	0.03	0.09	0.07	0.053	0.030	0.04	2.04

WORLD METEOROLOGICAL ORGANIZATION
PRECIPITATION NETWORK DATA
65312 - POTASSIUM
83 - PRECIP FLAME EMISSION

UNITS - 62 - MG/L-MILLIGRAMS/LITER

														YEARLY			
														ARITHMETIC		GEOMETRIC	
	YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	MEAN	STDEV	MEAN	STDEV
USSR IRKUTSK UR4000 101	61		0.50	0.49			0.72	0.23	0.65	0.30	0.56			0.495	0.178	0.46	1.51
USSR KURGAN UR5500 101	61	0.68	0.48	0.40	0.62	0.59	1.15	0.23		0.08	0.15	0.40	0.50	0.479	0.294	0.38	2.12
USSR NOVOPJATIGORSK UR6000 101	61	0.20	1.72	0.60	0.30	0.20	0.10	0.22	0.22	0.18	0.39	0.62	0.29	0.419	0.440	0.30	2.10
USSR SYKTIVKAR UR7000 101	61	0.28	0.30	0.30	1.10	0.47	0.10	0.18	0.30	0.13	0.10	0.42	0.22	0.324	0.270	0.25	1.98
USSR TURUKHANSK UR8000 101	61	0.25	0.42	0.50	0.59	0.22	0.10	0.55	0.16	0.10	0.28	0.28	0.31	0.313	0.167	0.26	1.82

WORLD METEOROLOGICAL ORGANIZATION
PRECIPITATION NETWORK DATA
65313 - MAGNESIUM
82 - PRECIP ATOMIC ABSORPTION

UNITS - 64 - MG/L-MILLIGRAMS/LITER

	YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	YEARLY ARITHMETIC MEAN	YEARLY ARITHMETIC STDEV	YEARLY GEOMETRIC MEAN	YEARLY GEOMETRIC STDEV
CANADA EDSON CA3000 101	81	0.29	0.13	0.19	0.32	0.15	0.11	0.09	0.13	0.10	0.10	0.38	0.21	0.183	0.097	0.16	1.63
CANADA HAY RIVER CA5030 101	81	0.50	0.47	0.29	0.19		0.64	0.41	0.09	0.05		0.11	0.13	0.287	0.205	0.21	2.35
CANADA KELOWNA CA5050 101	81	0.03	LD	0.02	0.05	0.03		0.05	0.32	0.05	0.04	0.03	0.05	0.066	0.089	0.04	2.11
CANADA MANIWAKI CA5100 101	81	0.10	0.01	0.07	0.13	0.05	0.03	0.05	0.02	0.02	0.02	0.02	0.02	0.044	0.037	0.03	2.18
CANADA MOULD BAY CA5400 101	81	0.42		0.22		0.18		0.22	0.50		1.55	0.82	2.60	0.813	0.852	0.52	2.64
CANADA MOUNT FOREST CA6000 101	81		0.32	0.97	0.94	0.32	0.15	0.10	0.02	0.08	0.05	0.17	0.37	0.317	0.336	0.18	3.30
CANADA PICKLE LAKE CA6050 101	81	0.09	0.04		0.10	0.31	0.07	0.27	0.06	0.06	0.06	0.23	0.04	0.122	0.097	0.09	2.07
CANADA SABLE ISLAND CA7500 101	81	4.27	2.69		2.47				0.13		2.81						
CANADA WYNYARD CA9000 101	81		1.20	2.39	1.05	1.08	0.40	0.22	0.15	0.62				0.888	0.728	0.63	2.54
CZECHOSLOVAKIA CHOPOK CZ2000 101	81	0.12	0.12	0.05	0.18	0.06	0.04	0.11	0.06	0.04	0.04	0.09	0.04	0.079	0.045	0.06	1.70
CZECHOSLOVAKIA SVRATOUCH CZ8000 101	81	0.11	0.11	0.07	0.06	0.07	0.05	0.05	0.10	0.08		0.04	0.07	0.073	0.024	0.07	1.39
DENMARK TANGE DA8000 101	81			0.10	0.20	0.17	0.05	0.13	0.07	0.09	0.89	3.14	0.38	0.521	0.553	0.20	3.56
FINLAND JOKIOINEN FI5000 101	81	0.05	0.06	0.06	0.13	0.23	0.10	0.07	0.03	0.15	0.01	0.04	0.04	0.080	0.062	0.06	2.29

WORLD METEOROLOGICAL ORGANIZATION
PRECIPITATION NETWORK DATA
653_{13} - MAGNESIUM
82 - PRECIP ATOMIC ABSORPTION

UNITS - 6_2 - MG/L-MILLIGRAMS/LITER
YEARLY

														ARITHMETIC		GEOMETRIC	
	YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	MEAN	STDEV	MEAN	STDEV
FINLAND SODANKYLA FI9000 101	81	LD	0.02	0.05	0.02	0.05	0.04	0.03	0.02	LD	0.01	0.01	0.05	0.029	0.016	0.02	1.86
FAEROE ISLANDS EJDE LORANSTATIO FO3000 101	81	1.59	2.02	3.15	0.61	1.26	0.26	0.36	0.39	0.56	3.04	1.73	1.00	1.330	1.006	0.98	2.33
FRANCE ABBEVILLE FR1000 101	81	0.70	0.32	0.22	0.30	0.11	0.13	0.13	0.30	0.11	0.33	0.37	1.25	0.355	0.325	0.26	2.11
FRANCE CARPENTRAS FR3000 101	81	0.09	0.15	0.09	0.16	0.14	0.15	0.16		0.14	0.12		0.12	0.131	0.026	0.12	1.24
FRANCE CHATEAUCHINON FR4000 101	81	0.05	0.08	0.04	0.09	0.03	0.05	0.09	0.03	0.08	0.07	0.07	0.11	0.064	0.025	0.05	1.53
FRANCE GOURDON FR6000 101	81	0.22	0.10	0.07	0.23	0.11	0.04	0.08	0.13	0.07	0.07	0.27	0.23	0.134	0.079	0.11	1.84
FRANCE PHALSBOURG FR7000 101	81	0.12	0.10	0.12	0.18	0.09	0.15	0.09	0.15	0.10	0.06	0.12	0.10	0.114	0.032	0.11	1.33
FRANCE ROSTRENEN FR9000 101	81	0.41	0.30	0.28	0.30	0.14	0.21	0.15	0.13	0.12	0.21	0.50	0.46	0.267	0.131	0.23	1.65
GERMAN DEM REP NEUGLOBSOW GC7000 101	81	0.20	0.26	0.20	0.15	0.48	0.08	0.19	0.05	0.09	0.12	0.12	0.04	0.164	0.119	0.13	2.01
FED REP GERMANY BROTJACKLRIEGEL GE2000 101	81				0.05	0.03	0.03	0.03	0.05	0.03	0.03			0.035	0.009	0.03	1.28
FED REP GERMANY DEUSELBACH GE3000 101	81	0.11	0.22	0.05	0.04	0.04	0.06	0.07	0.04	0.05	0.04			0.071	0.056	0.06	1.74
FED REP GERMANY LANGENBRUGGE GE6000 101	81	0.22	0.18	0.05		0.09	0.06	0.10	0.06	0.05	0.09			0.099	0.060	0.06	1.70
FED REP GERMANY SCHAUINSLAND GE9000 101	81	0.07	0.03	0.03	0.07	0.01	0.04	0.05	0.04	0.02	0.02			0.037	0.020	0.03	1.83

WORLD METEOROLOGICAL ORGANIZATION
PRECIPITATION NETWORK DATA
65313 - MAGNESIUM
82 - PRECIP ATOMIC ABSORPTION

UNITS - 62 - MG/L-MILLIGRAMS/LITER

	YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	YEARLY ARITHMETIC MEAN	YEARLY ARITHMETIC STDEV	YEARLY GEOMETRIC MEAN	YEARLY GEOMETRIC STDEV
GREENLAND GODHAVN GL4000 101	81	1.65	1.03	LD	LD	LD	0.37	0.15	0.14	LD	LD	1.00					
HUNGARY KECSKEMET HU7000 101	81	3.12	2.44	0.70	1.85	0.20	0.50	0.55	1.56	1.40	1.02	1.48	0.43	1.270	0.885	0.57	2.24
ITALY MONTE CIMONE IT4000 101	81	0.67	0.39	0.39	0.83	0.93	0.10	0.16	0.14	0.10	0.54		0.30	0.413	0.295	0.31	2.28
ITALY S.MARIA DI LEUCA IT7000 101	81	1.78	0.63	1.08	0.80	1.18		0.32		0.38	0.46	1.07	1.24	0.893	0.460	0.78	1.76
ITALY TRAPANI/BIRGI IT8000 101	81	10.90	1.50	2.86	0.90	0.92	1.16				3.35	1.23	1.48	2.699	3.192	1.66	2.23
ITALY VERONA IT8500 101	81	0.15	8.10	0.21	0.35	0.12	0.16	0.10	0.12	0.10	0.12		0.13	0.878	2.396	0.20	3.55
ITALY VITERBO IT9000 101	81	2.76	4.20	1.34	0.57	0.69	0.25	1.56	0.83	0.31	0.59		1.04	1.285	1.199	0.91	2.35
JAPAN RYORI JA9000 101	81	0.39	0.28		0.21	0.14	0.06	0.09	0.60				0.38	0.268	0.182	0.21	2.20
JORDAN SHOUBAK JO9000 101	81			LD													
MALAYSIA CAMERON HIGHLANDS MY2000 101	81	0.04	0.01	0.02	0.01	0.02	0.02	0.02	0.03	LD	LD	0.01	0.02	0.019	0.009	0.01	1.60
NETHERLANDS WITTEVEEN NL8000 101	81	0.51	0.17	0.05	0.29	0.10	0.12	LD	0.15	0.07	0.22	0.56	0.21	0.221	0.163	0.17	2.08
NORWAY AS NO1000 101	81							0.06	0.42	0.22	0.20	0.17	0.36				
NORWAY BIRKENES NO2000 101	81							0.03	0.08	0.20	0.16	0.16	0.08				

WORLD METEOROLOGICAL ORGANIZATION
PRECIPITATION NETWORK DATA
65313 - MAGNESIUM
82 - PRECIP ATOMIC ABSORPTION

UNITS - 64 - MG/L-MILLIGRAMS/LITER

														YEARLY			
														ARITHMETIC		GEOMETRIC	
	YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	MEAN	STDEV	MEAN	STDEV
NORWAY KISE NO5000 101	81							0.03	0.07	0.22	0.07	0.04	0.22				
POLAND JELENIA GORA PL5000 101	81	0.18			0.16	0.23	0.21	0.09	0.10	0.15	0.09	0.10	0.11	0.141	0.051	0.13	1.43
POLAND SUWALKI PL8000 101	81	0.43	0.24	0.07	0.23	0.08	0.05	0.04	0.04	0.08	0.04	0.04	0.03	0.114	0.123	0.07	2.37
ROMANIA SEMENIC RO1000 101	81			0.30	0.10												
ROMANIA SEMENIC RO1000 102	81	0.70	0.50		0.20	0.50	0.40	0.40	0.30	0.10	0.10	1.10	0.10	0.399	0.303	0.30	2.29
ROMANIA FUNDATA RO2000 102	81	0.40	0.60	0.20	0.20	0.80	0.20	0.40	0.40	0.10	0.30	0.10	1.10	0.399	0.301	0.31	2.12
ROMANIA TURIA RO6000 101	81	0.70	0.50	0.10	0.10	0.30	0.30	0.30	0.60	0.10	LD	0.10	0.10	0.290	0.221	0.21	2.22
ROMANIA TURIA RO6000 102	81	0.40	0.50	0.20	0.20	0.30	0.10	0.40	0.30	0.10	0.20	0.20	0.20	0.258	0.124	0.23	1.66
ROMANIA RARAU RO7000 102	81	0.20	0.20	0.20	0.50	0.30	LD	0.30	0.30	0.10	LD	0.10	0.20	0.239	0.117	0.21	1.64
ROMANIA STINA DE VALE RO8000 101	81	0.20	0.10	0.10	0.10	0.30	0.20	0.60	0.50	LD	0.10			0.244	0.187	0.19	2.04
ROMANIA STINA DE VALE RO8000 102	81	0.30	0.10	0.30	0.10	0.30	0.30	0.40	0.30	0.10	0.10	0.10	0.10	0.208	0.116	0.17	1.82
ROMANIA PARING RO9000 101	81				0.10												
ROMANIA PARING RO9000 102	81	0.50	0.20	0.30	0.20	0.30	0.10	0.10	0.20			0.10	0.10	0.209	0.128	0.18	1.77

WORLD METEOROLOGICAL ORGANIZATION
PRECIPITATION NETWORK DATA
65313 - MAGNESIUM
82 - PRECIP ATOMIC ABSORPTION

UNITS - 62 - MG/L-MILLIGRAMS/LITER

														YEARLY			
														ARITHMETIC		GEOMETRIC	
		YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	MEAN	STDEV	MEAN	STDEV
SWEDEN BREDKALEN	SW1000 101	81	0.10	0.18	0.06	0.21	0.45	0.07	0.06	0.10	0.18	0.04	0.04	0.07	0.129	0.116	0.09	2.08
SWEDEN VELEN	SW9000 101	81	0.06	0.09	0.03	0.06	0.03	LD	0.03	0.02	0.03	0.09	0.07	0.09	0.054	0.027	0.04	1.74
SWITZERLAND JUNGFRAUJOCH	SZ4000 101	81	0.02	0.02	0.02	0.05	0.04	0.06	0.03	0.10	0.05	0.03	0.05	0.02	0.040	0.023	0.03	1.69
SWITZERLAND PAYERNE	SZ7000 101	81	0.05	0.07	0.03		0.04	0.14	0.06	0.11		0.06	0.12	0.06	0.073	0.036	0.06	1.63
UNITED KINGDOM DUMFRIES SCOTLAND	UK2000 101	81	0.40	0.20	0.10	LD	0.20	LD	LD	LD	0.10	0.20	0.30	LD	0.214	0.106	0.19	1.67
USSR KURGAN	UR5500 101	81	0.40	0.31	0.13	0.18	0.01	0.14	0.05		LD	0.04	0.54	0.15	0.194	0.170	0.12	3.32
USSR NOVOPJATIGORSK	UR6000 101	81	0.03	0.77	0.02	0.06	LD	0.08	0.08	0.10	0.14	0.33	0.75	0.34	0.245	0.276	0.13	3.37
USSR SYKTIVKAR	UR7000 101	81	LD	0.04	0.01	0.54	0.10	LD	LD	0.10	LD	0.01	0.10	0.01	0.113	0.177	0.04	4.29

WORLD METEOROLOGICAL ORGANIZATION
PRECIPITATION NETWORK DATA
65313 - MAGNESIUM
83 - PRECIP FLAME EMISSION

UNITS - 62 - MG/L-MILLIGRAMS/LITER

														YEARLY			
														ARITHMETIC		GEOMETRIC	
	YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	MEAN	STDEV	MEAN	STDEV
FRANCE GOURDON																	
FR6DOU 101	61			0.39													

WORLD METEOROLOGICAL ORGANIZATION
PRECIPITATION NETWORK DATA
653$_{13}$ - MAGNESIUM
84 - PRECIP EDTA TITRATION

UNITS - 6$_2$ - MG/L-MILLIGRAMS/LITER

														YEARLY			
														ARITHMETIC		GEOMETRIC	
	YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	MEAN	STDEV	MEAN	STDEV
IRELAND VALENTIA OBSERVAT EI8000 101	81	4.60	0.83	0.68	0.76	0.73	0.44	0.83	0.53	0.54	2.10	1.00	1.50	1.229	1.217	0.54	1.95
USSR IRKUTSK UR4000 101	81		0.83	0.46			0.89	0.47	0.56	0.67	0.41			0.615	0.188	0.59	1.35
USSR TURUKHANSK UR8000 101	81	0.57	0.49	0.24	0.23	0.66	0.36	2.47	1.65	0.39	0.35	0.22	0.30	0.664	0.695	0.47	2.15

WORLD METEOROLOGICAL ORGANIZATION
PRECIPITATION NETWORK DATA
65313 - MAGNESIUM
86 - PRECIP PHOTO TITRATION

UNITS - 62 - MG/L-MILLIGRAMS/LITER

														YEARLY			
														ARITHMETIC		GEOMETRIC	
	YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	MEAN	STDEV	MEAN	STDEV
INDONESIA JAKARTA I06000 102	61	3.50	3.20	3.60	5.30	5.40	3.60	6.30	6.20	3.10	1.90	1.70	0.80	3.716	1.778	3.23	1.83

WORLD METEOROLOGICAL ORGANIZATION
PRECIPITATION NETWORK DATA
65314 - CALCIUM
82 - PRECIP ATOMIC ABSORPTION

UNITS - 62 - MG/L-MILLIGRAMS/LITER

														YEARLY			
														ARITHMETIC		GEOMETRIC	
	YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	MEAN	STDEV	MEAN	STDEV
CANADA EDSON CA3000 101	81	2.78	1.14	1.60	3.49	1.05	0.93	0.72	1.41	0.68	0.83	3.31	1.88	1.651	1.006	1.40	1.78
CANADA HAY RIVER CA5030 101	81	4.03	3.30	2.62	1.11		10.71	1.90	0.57	0.42		1.04	1.04	2.673	3.067	1.70	2.65
CANADA KELOWNA CA5050 101	81	0.30	0.17	0.18	0.58	0.23		0.36	1.04	0.32	0.16	0.26	0.14	0.339	0.263	0.28	1.62
CANADA MANIWAKI CA5100 101	81	0.75	0.07	0.57	0.97	0.29	0.20	0.31	0.14	0.25	0.14	0.20	0.21	0.341	0.276	0.26	2.11
CANADA MOULD BAY CA5400 101	81	0.52		0.35		0.55		1.00	1.69		1.57	0.92	1.12	0.964	0.488	0.85	1.74
CANADA MOUNT FOREST CA6000 101	81		0.99	2.51	2.63	1.00	0.52	0.34	0.19	0.39	0.19	0.52	1.15	0.948	0.866	0.65	2.48
CANADA PICKLE LAKE CA6050 101	81	0.46	0.25		0.57	1.78	0.38	1.36	0.46	0.42	0.36	1.09	0.24	0.669	0.508	0.53	1.96
CANADA SABLE ISLAND CA7500 101	81	1.52	1.05		1.01				0.12		1.04						
CANADA WYNYARD CA9000 101	81		4.52	10.51	4.06	3.70	1.56	0.63	0.68	2.93				3.598	3.153	2.55	2.51
CZECHOSLOVAKIA CHOPOK CZ2000 101	81	0.58	0.59	0.31	1.19	0.45	0.29	0.63	0.49	0.25	0.39	0.52	0.21	0.506	0.276	0.45	1.65
CZECHOSLOVAKIA SVRATOUCH CZ8000 101	81	0.63	0.83	0.65	0.56	0.54	0.58	0.42	0.96	0.82		0.64	0.70	0.686	0.163	0.66	1.27
DENMARK TANGE DA8000 101	81			0.10	0.45	0.29	0.30	0.20	0.10	0.20	0.40	1.10	0.50	0.363	0.292	0.28	2.09
FINLAND JOKIOINEN FI5000 101	81	0.22	0.36	0.43	0.45	2.34	0.48	0.46	0.08	0.94	LD	0.12	0.19	0.553	0.637	0.36	2.55

WORLD METEOROLOGICAL ORGANIZATION
PRECIPITATION NETWORK DATA
65314 - CALCIUM
82 - PRECIP ATOMIC ABSORPTION

UNITS - 62 - MG/L-MILLIGRAMS/LITER

														YEARLY			
														ARITHMETIC		GEOMETRIC	
	YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	MEAN	STDEV	MEAN	STDEV
FINLAND SODANKYLA FI9000 101	81	LD	LD	0.83	0.06	0.18	0.06	0.17	0.10	0.10	LD	0.04	0.05	0.176	0.250	0.10	2.53
FAEROE ISLANDS EJDE LORANSTATIO FO3000 101	81	0.53	0.72	1.05	0.24	0.50	0.10	0.20	0.20	0.20	1.00	0.50	0.30	0.461	0.319	0.36	2.08
FRANCE ABBEVILLE FR1000 101	81	0.73	2.57	0.88	1.66	0.52	0.49	0.52	0.84	0.39	0.52	1.13	0.88	0.927	0.625	0.79	1.73
FRANCE CARPENTRAS FR3000 101	81	1.08	1.98	1.38	2.72	2.15	2.10	1.76		1.46	1.53		1.03	1.718	0.527	1.64	1.36
FRANCE CHATEAUCHINON FR4000 101	81	0.02	0.18	0.08	0.56	0.11	0.13	0.56	0.23	0.10	0.34	0.24	0.08	0.219	0.181	0.15	2.55
FRANCE GOURDON FR6000 101	81	0.58	0.55	0.35	1.95	0.34	0.66	0.82	1.04	0.52	0.23	0.93	0.23	0.683	0.477	0.56	1.88
FRANCE PHALSBOURG FR7000 101	81	0.28	0.81	0.48	1.68	0.55	0.99	0.98	1.47	0.68	0.99	0.84	0.12	0.822	0.450	0.67	2.07
FRANCE ROSTRENEN FR9000 101	81	0.22	0.19	0.13	0.39	0.07	0.42	0.80	0.59	0.05	0.07	0.80	0.16	0.324	0.275	0.22	2.42
GERMAN DEM REP NEUGLOBSOW GC7000 101	81	0.60	1.30	0.35	1.70	0.95	0.70	0.73	1.04	0.46	0.95	0.53	0.39	0.808	0.401	0.72	1.62
FED REP GERMANY BROTJACKLRIEGEL GE2000 101	81				0.51	0.40	0.41	0.28	0.49	0.21	0.26			0.365	0.117	0.34	1.40
FED REP GERMANY DEUSELBACH GE3000 101	81	0.14	0.10	0.18	0.34	0.27	0.40	0.49	0.25	0.20	0.11			0.247	0.129	0.21	1.71
FED REP GERMANY LANGENBRUGGE GE6000 101	81	0.25	0.43	0.26		1.01	0.50	0.50	0.40	0.32	0.29			0.439	0.234	0.39	1.54
FED REP GERMANY SCHAUINSLAND GE9000 101	81	0.08	0.06	0.16	0.38	0.05	0.42	0.52	0.65	0.12	0.12			0.255	0.217	0.17	2.55

WORLD METEOROLOGICAL ORGANIZATION
PRECIPITATION NETWORK DATA
65314 - CALCIUM
82 - PRECIP ATOMIC ABSORPTION

UNITS - 62 - MG/L-MILLIGRAMS/LITER

														YEARLY ARITHMETIC		GEOMETRIC	
	YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	MEAN	STDEV	MEAN	STDEV
GREENLAND GODHAVN GL4000 101	81	0.67	0.63	LD	LD	LD	0.60	0.20	0.10	LD	LD	0.40					
HUNGARY KECSKEMET HU7000 101	81	5.15	7.00	1.60	1.16	1.70	1.60	1.04	14.40	6.20	3.10	5.10	1.73	4.149	3.658	2.96	2.30
ITALY MONTE CIMONE IT4000 101	81	6.80	4.00	1.90	4.80	5.90	0.90	0.80	0.90	0.70	2.00		1.10	2.709	2.256	1.93	2.37
ITALY S.MARIA DI LEUCA IT7000 101	81	0.70	0.90	2.90	3.50	7.60		1.20	6.40	1.60	0.90	1.40	1.00	2.554	2.380	1.82	2.27
ITALY TRAPANI/BIRGI IT8000 101	81	3.20	2.30	6.60	8.80	12.80	13.40				7.50	1.40	1.10	6.366	4.706	4.57	2.56
ITALY VERONA IT8500 101	81	0.30	19.70	1.40	1.60	0.90	0.80	0.50	0.50	0.60	0.30		0.30	2.445	5.739	0.82	3.32
ITALY VITERBO IT9000 101	81	3.50	7.60	2.50	1.80	3.10	0.90	4.40	3.80	1.10	1.00		2.00	2.681	1.564	2.35	1.96
JAPAN RYORI JA9000 101	81	0.60	1.00		0.52	0.24	0.17	0.34	0.32				0.70	0.486	0.276	0.42	1.80
JORDAN SHOUBAK JO9000 101	81			15.20													
MALAYSIA CAMERON HIGHLANDS MY2000 101	81	0.22	0.05	0.06	0.11	2.50	0.29	0.32	0.16	0.02	LD	0.06	0.12	0.357	0.717	0.14	3.56
NETHERLANDS WITTEVEEN NL8000 101	81	0.28	0.16	0.46	0.76	0.48	0.28	LD	0.20	0.32	0.28	0.44	0.26	0.349	0.167	0.31	1.55
NORWAY AS NO1000 101	81							0.20	0.70	0.50	0.51	0.30	1.20				
NORWAY BIRKENES NO2000 101	81							0.20	0.50	0.20	0.20	0.20	0.10				

WORLD METEOROLOGICAL ORGANIZATION
PRECIPITATION NETWORK DATA
65314 - CALCIUM
82 - PRECIP ATOMIC ABSORPTION

UNITS - 62 - MG/L-MILLIGRAMS/LITER

	YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	YEARLY ARITHMETIC MEAN	YEARLY ARITHMETIC STDEV	YEARLY GEOMETRIC MEAN	YEARLY GEOMETRIC STDEV
NORWAY KISE NO5000 101	81							0.30	0.60	1.80	0.46	0.20	1.50				
POLAND JELENIA GORA PL5000 101	81	0.68			1.20	1.96	1.44	0.53	0.64	1.78	0.61	0.45	0.53	0.981	0.566	0.85	1.73
POLAND SUWALKI PL8000 101	81	1.26	0.91	0.52	1.68	0.64	0.44	0.68	0.36	0.76	0.34	0.21	0.24	0.686	0.440	0.57	1.90
ROMANIA SEMENIC RO1000 101	81			1.70	0.30												
ROMANIA SEMENIC RO1000 102	81	5.20	0.20		1.40	2.00	2.30	1.20	1.90	1.20	0.90	12.60	1.80	2.790	3.492	1.71	2.80
ROMANIA FUNDATA RO2000 102	81	5.00	6.00	0.40	3.50	4.10	4.90	3.70	1.80	3.00	4.30	2.20	1.60	3.374	1.633	2.82	2.09
ROMANIA TURIA RO6000 101	81	1.70	1.20	0.90	1.20	1.00	0.30	1.50	1.70	1.40	0.50	1.00	1.60	1.166	0.451	1.05	1.69
ROMANIA TURIA RO6000 102	81	1.60	2.30	3.20	2.50	1.90	1.10	2.60	2.30	1.20	2.70	2.60	2.40	2.199	0.631	2.10	1.39
ROMANIA RARAU RO7000 102	81	0.70	0.60	1.70	7.10	1.40	3.50	1.20	1.40	0.80	1.10	2.50	1.40	1.949	1.813	1.49	2.01
ROMANIA STINA DE VALE RO8000 101	81	0.60	0.40	1.50	0.90	0.80	0.60	1.40	1.30	0.60	0.60			0.869	0.391	0.79	1.55
ROMANIA STINA DE VALE RO8000 102	81	0.90	0.40	1.60	0.80	1.00	0.70	1.30	1.10	1.20	0.70	1.20	0.50	0.949	0.350	0.88	1.50
ROMANIA PARING RO9000 101	81				1.00												
ROMANIA PARING RO9000 102	81	1.40	1.50	2.50	1.50	0.60	3.80	2.50	1.40			1.30	1.60	1.809	0.854	1.62	1.63

WORLD METEOROLOGICAL ORGANIZATION
PRECIPITATION NETWORK DATA
65314 - CALCIUM
82 - PRECIP ATOMIC ABSORPTION

UNITS - 62 - MG/L-MILLIGRAMS/LITER

														YEARLY			
														ARITHMETIC		GEOMETRIC	
	YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	MEAN	STDEV	MEAN	STDEV
SWEDEN BREDKALEN SW1000 101	81	0.37	0.57	0.40	1.12	2.99	0.53	0.46	0.42	1.56	0.42	0.25	0.70	0.815	0.778	0.62	2.01
SWEDEN VELEN SW9000 101	81	0.04	0.09	0.09	0.20	0.22	0.08	0.05	0.02	0.21	0.13	0.05	0.25	0.119	0.080	0.09	2.21
SWITZERLAND JUNGFRAUJOCH SZ4000 101	81	0.33	0.35	0.48	0.75	0.43	1.03	0.46	2.90	1.43	0.58	1.37	0.52	0.685	0.738	0.70	1.94
SWITZERLAND PAYERNE SZ7000 101	81	0.40	0.29	0.26		0.20	0.98	0.54	0.83		0.48	0.43	0.24	0.464	0.258	0.40	1.69
UNITED KINGDOM DUMFRIES SCOTLAND UK2000 101	81	LD	0.10	LD	0.40	0.30	0.10	LD	LD	LD	0.20	0.30	0.20	0.228	0.111	0.20	1.72
USSR KURGAN UR5500 101	81	2.72		1.43	2.20	0.62	0.89	0.50		0.22	0.44	0.96	0.78	1.075	0.809	0.83	2.13
USSR NOVOPJATIGORSK UR6000 101	81	0.76	4.40	1.20	1.26	0.56	0.66	0.78	0.80	1.26	1.18	2.02	1.18	1.338	1.041	1.12	1.74
USSR SYKTIVKAR UR7000 101	81	0.36	0.62	1.10	3.56	1.90	0.16	0.13	0.50	0.32	0.18	0.70	0.25	0.616	0.999	0.49	2.73

WORLD METEOROLOGICAL ORGANIZATION
PRECIPITATION NETWORK DATA
65314 - CALCIUM
83 - PRECIP FLAME EMISSION

UNITS - 62 - MG/L-MILLIGRAMS/LITER

	YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	YEARLY ARITHMETIC MEAN	YEARLY ARITHMETIC STDEV	YEARLY GEOMETRIC MEAN	YEARLY GEOMETRIC STDEV
IRELAND VALENTIA OBSERVAT EI8000 101	81	1.50	0.60	0.50	1.00	0.50	0.25	0.40	0.34	0.40	0.80	1.20	0.80	0.690	0.381	0.60	1.71
USSR IRKUTSK UR4000 101	81		0.75	1.25			0.65	0.14	0.59	0.49	1.41			0.754	0.439	0.61	2.14
USSR TURUKHANSK UR8000 101	81	0.33	0.38	0.90	0.81	0.32	0.44	1.02	0.76	0.74	0.75	0.68	0.46	0.632	0.236	0.58	1.50

WORLD METEOROLOGICAL ORGANIZATION
PRECIPITATION NETWORK DATA
65314 - CALCIUM
86 - PRECIP PHOTOMETRIC TITRATION

UNITS - 62 - MG/L-MILLIGRAMS/LITER

														YEARLY			
														ARITHMETIC		GEOMETRIC	
	YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	MEAN	STDEV	MEAN	STDEV
INDONESIA JAKARTA																	
I06000 102	81	6.2	5.1	2.7	6.1	4.5	5.4	4.5	7.1	1.5	2.3	0.2	0.6	3.84	2.31	2.72	2.97

WORLD METEOROLOGICAL ORGANIZATION
PRECIPITATION NETWORK DATA
65315 - FLUORIDE
81 - PRECIP SPECIFIC ION ELECTRODE

UNITS - 62 - MG/L-MILLIGRAMS/LITER

	YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	YEARLY ARITHMETIC MEAN	YEARLY ARITHMETIC STDEV	YEARLY GEOMETRIC MEAN	YEARLY GEOMETRIC STDEV
MALAYSIA CAMERON HIGHLANDS MY2000 101	81	LD	0.01	0.01	0.01	LD	LD	LD	LD	LD	0.01	LD	LD				
NETHERLANDS WITTEVEEN NL8000 101	81	0.02	0.03	0.02	0.05	0.03	0.01	0.02	0.01	0.02	0.01	0.02	LD	0.023	0.010	0.02	1.46
ROMANIA SEMENIC RO1000 101	81			0.04	0.04												
ROMANIA SEMENIC RO1000 102	81	0.06	0.04		0.04	LD	LD	LD	0.04	0.13	LD	LD	0.16				
ROMANIA FUNDATA RO2000 102	81	LD	LD	0.04	0.04	LD	LD	0.05	0.04	LD	LD	LD	LD				
ROMANIA TURIA RO6000 101	81	LD	LD	0.10	0.05	LD	LD	0.02	0.03	LD	LD	LD	LD				
ROMANIA TURIA RO6000 102	81	LD	LD	0.08	0.07	LD	LD	0.02	0.04	LD	LD	LD	LD				
ROMANIA RARAU RO7000 102	81	LD	LD	0.04	0.04	LD	LD	0.02	0.02	LD	LD	LD	LD				
ROMANIA STINA DE VALE RO8000 101	81	LD	LD	LD	0.04	LD	LD	0.02	0.07	LD	LD						
ROMANIA STINA DE VALE RO8000 102	81	LD	LD	0.05	0.04	LD	LD	0.02	0.03	LD	LD	LD	LD				
ROMANIA PARING RO9000 101	81				0.05												
ROMANIA PARING RO9000 102	81	LD	0.05	0.06	0.05	0.02	LD	LD	0.02			LD	LD				

WORLD METEOROLOGICAL ORGANIZATION
PRECIPITATION NETWORK DATA
65316 - CHLORIDE
81 - PRECIP COLORIMETRIC

UNITS - 62 - MG/L-MILLIGRAMS/LITER

														YEARLY ARITHMETIC			
	YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	MEAN	STDEV	GEOMETRIC MEAN	STDEV
CANADA EDSON CA3000 101	81	1.11	LD	0.60	0.40	0.10	0.30	0.10	0.17	0.18	0.17	0.50	0.70	0.393	0.314	0.29	2.24
CANADA HAY RIVER CA5030 101	81	1.15	0.60	1.30	0.50		1.40	0.60	0.10	0.34		0.60	0.40	0.698	0.434	0.56	2.17
CANADA KELOWNA CA5050 101	81	0.17	LD	0.30	0.40	0.30		0.30	0.21	0.33	0.27	0.30	0.60	0.317	0.117	0.30	1.40
CANADA MANIWAKI CA5100 101	81	1.31	0.20	0.60	0.30	0.20	0.40	0.20	0.10	0.12	LD	0.20	0.40	0.366	0.345	0.27	2.09
CANADA MOULD BAY CA5400 101	81	4.00		3.30		1.60		2.20	4.12		22.40	8.40	31.00	9.627	10.574	5.70	2.90
CANADA MOUNT FOREST CA6000 101	81		1.40	1.10	0.30	0.20	0.30	0.10	LD	0.15	LD	0.10	1.30	0.549	0.547	0.33	2.91
CANADA PICKLE LAKE CA6050 101	81	0.17	LD		0.10	0.10	0.30	0.10	0.10	0.16	0.22	0.10	0.40	0.174	0.103	0.15	1.68
CANADA SABLE ISLAND CA7500 101	81	61.68	38.80		35.60				2.10		48.16						
CANADA WYNYARD CA9000 101	81		1.00	1.20	0.50	0.40	0.40	0.10	LD	0.29				0.555	0.396	0.43	2.28
CZECHOSLOVAKIA CHOPOK CZ2000 101	81	1.18	1.07	0.46	1.11	0.35	0.22	0.48	0.24	0.23	0.41	0.63	0.57	0.579	0.351	0.49	1.82
CZECHOSLOVAKIA SVRATOUCH CZ8000 101	81	1.20	1.20	0.54	0.14	0.41	0.27	0.24	0.45	0.41	0.71	0.68	0.78	0.589	0.344	0.49	1.90
DENMARK TANGE DA8000 101	81			0.14	0.31	0.15	0.04	0.15	0.04	0.09	1.16	4.65	0.69	0.741	1.418	0.23	4.53
IRELAND VALENTIA OBSERVAT EI8000 101	81	69.50	12.30	11.40	9.70	9.70	5.70	10.50	5.50	7.70	28.30	12.10	17.90	16.691	17.726	12.47	2.01

WORLD METEOROLOGICAL ORGANIZATION
PRECIPITATION NETWORK DATA
65316 - CHLORIDE
81 - PRECIP COLORIMETRIC

UNITS - 62 - MG/L-MILLIGRAMS/LITER

														YEARLY			
														ARITHMETIC		GEOMETRIC	
	YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	MEAN	STDEV	MEAN	STDEV
FINLAND JOKIOINEN F15000 101	81	0.60	0.60	0.70	0.70	0.80	0.10	0.20	0.10	0.80	0.40	0.50	0.30	0.483	0.256	0.39	2.14
FINLAND SODANKYLA F19000 101	81	0.10	0.40	0.60	0.30	0.30	LD	LD	LD	0.10	LD	LD	0.60	0.342	0.207	0.27	2.12
FAEROE ISLANDS EJDE LORANSTATIO F03000 101	81	2.30	2.90	4.60	0.91	1.20	0.38	0.55	0.61	0.88	4.35	2.70	1.44	1.943	1.450	1.45	2.29
FRANCE ABBEVILLE FR1000 101	81	11.60	5.20	3.80	3.80	0.50	1.32	1.60	2.40	0.50	4.00	4.90	24.50	5.359	6.750	3.00	3.16
FRANCE CARPENTRAS FR3000 101	81	0.70	1.50	0.50	1.10	0.65	0.64	0.90		1.10	1.20		0.52	0.680	0.333	0.62	1.45
FRANCE CHATEAUCHINON FR4000 101	81	0.78	1.70	0.80	1.50	0.15	0.28	0.45	0.22	0.32	0.05	1.00	0.82	0.672	0.530	0.45	2.80
FRANCE GOURDON FR6000 101	81	2.60	1.10	1.00	1.60	1.05	0.10	0.62	0.32	0.24	0.22	3.25	2.92	1.251	1.108	0.77	3.09
FRANCE PHALSBOURG FR7000 101	81	1.98	2.40	1.42	0.90	0.42	0.63	0.62	0.30	0.38	0.10	1.60	0.80	0.962	0.725	0.70	2.47
FRANCE ROSTRENEN FR9000 101	81	6.40	4.80	5.30	4.65	1.82	3.00	1.50	1.20	1.82	2.80	9.00	6.66	4.079	2.459	3.38	1.93
GREENLAND GODHAVN GL4000 101	81	2.40	1.40	LD	LD	LD	0.59	0.21	0.23	LD	LD	1.50					
HUNGARY KECSKEMET HU7000 101	81							1.20	2.60	1.66	1.56	2.80	0.74				
INDONESIA JAKARTA I06000 102	81	3.20	4.10	3.70	3.90	3.50	3.00	6.20	5.10	1.50	1.20	0.80	0.60	3.066	1.744	2.48	2.12
ITALY MONTE CIMONE IT4000 101	81	1.60	2.50	3.30	6.60	8.50	0.30	0.90	0.30	0.90	5.90		3.10	3.081	2.779	1.87	3.21

WORLD METEOROLOGICAL ORGANIZATION
PRECIPITATION NETWORK DATA
65316 - CHLORIDE
81 - PRECIP COLORIMETRIC

UNITS - 62 - MG/L-MILLIGRAMS/LITER

	YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	YEARLY ARITHMETIC MEAN	YEARLY ARITHMETIC STDEV	YEARLY GEOMETRIC MEAN	YEARLY GEOMETRIC STDEV
ITALY S.MARIA DI LEUCA 117000 101	81	12.40	8.20	11.60	7.00	9.10		0.30	13.80	2.60	6.60	11.30	17.60	9.136	4.974	6.61	3.13
ITALY TRAPANI/BIRGI 118000 101	81	79.00	20.00	23.00	5.40	4.50	1.50				45.30	15.40	19.40	23.722	24.552	13.78	3.41
ITALY VERONA 118500 101	81	0.50	11.20	1.00	1.40	0.30	0.40	LD	0.20	1.00	0.90		1.10	1.799	3.325	0.84	3.02
ITALY VITERBO 119000 101	81	13.60	38.80	14.00	5.20	7.00	1.70	16.20	4.80	2.30	6.80		12.30	11.354	10.534	7.92	2.50
JAPAN RYORI JA9000 101	81	6.58	3.23		2.70	1.67	0.43	1.47	11.57				6.43	4.26	3.687	2.90	2.82
MALAYSIA CAMERON HIGHLANDS MY2000 101	81	1.71	0.29	0.57	0.29	LD	LD	0.66	1.14	LD	0.29	LD	0.29	0.679	0.524	0.53	2.05
NORWAY AS NO1000 101	81							0.50	8.90	2.00	1.80	2.00	2.60				
NORWAY BIRKENES NO2000 101	81							0.30	1.10	2.60	2.20	2.40	1.00				
NORWAY KISE NO5000 101	81							0.30	0.50	1.00	0.30	0.30	0.60				
POLAND JELENIA GORA PL5000 101	81	0.90			1.22	0.91	1.50	0.57	0.57	1.31	0.70	0.68	0.54	0.889	0.344	0.83	1.45
POLAND SUWALKI PL8000 101	81	2.18	3.26	0.86	0.91	0.35	0.52	0.40	0.25	0.54	0.49	0.61	0.74	0.925	0.890	0.69	2.08
SWEDEN BREDKALEN SW1000 101	81	0.21	1.29	0.14	0.60	0.47	0.10	0.10	0.14	0.42	0.04	0.07	0.14	0.309	0.356	0.19	2.71
SWEDEN VELEN SW9000 101	81	0.54	1.04	0.34	0.24	0.19	0.14	0.42	0.10	0.21	1.04	0.79	0.57	0.468	0.334	0.36	2.17

WORLD METEOROLOGICAL ORGANIZATION
PRECIPITATION NETWORK DATA
65316 - CHLORIDE
81 - PRECIP COLORIMETRIC

UNITS - 62 - MG/L-MILLIGRAMS/LITER

	YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	YEARLY ARITHMETIC MEAN	YEARLY ARITHMETIC STDEV	YEARLY GEOMETRIC MEAN	YEARLY GEOMETRIC STDEV
UNITED KINGDOM DUMFRIES SCOTLAND UK2000 101	81	6.20	1.90	1.70	1.30	2.40	1.70	1.50	0.70	1.80	3.40	5.00	1.20	2.399	1.655	1.99	1.84
USSR IRKUTSK UR4000 101	81			1.08			1.07	0.88	1.50	0.81	1.17						
USSR KURGAN UR5500 101	81		2.06	1.42	1.70	1.33	1.28	0.57		0.85		1.77	0.43	1.267	0.554	1.13	1.71
USSR NOVOPJATIGORSK UR6000 101	81	0.60	3.90	1.24	0.62	0.48	0.57	0.57	0.25	0.21	0.99	1.77	0.89	1.007	1.009	0.73	2.22
USSR SYKTIVKAR UR7000 101	81	0.53	0.85	0.96	2.84	0.74	0.46	0.53	0.50	0.50	0.35	0.50	0.82	0.798	0.669	0.66	1.72
USSR TURUKHANSK UR8000 101	81	0.92	1.40	1.08	1.27	1.08	0.56	1.63	0.93	0.69	0.62	1.10	1.79	1.089	0.384	1.02	1.44

WORLD METEOROLOGICAL ORGANIZATION
PRECIPITATION NETWORK DATA
65316 - CHLORIDE
82 - PRECIP PHOTOMETRIC TITRATION

UNITS - 62 - MG/L-MILLIGRAMS/LITER

	YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	YEARLY ARITHMETIC MEAN	YEARLY ARITHMETIC STDEV	YEARLY GEOMETRIC MEAN	YEARLY GEOMETRIC STDEV
GERMAN DEM REP NEUGLOBSOW GC7000 101	61	1.52	1.80	0.59	1.85	1.35	0.82	0.12	0.45	0.54	1.29	1.74	0.76	1.069	0.593	0.86	2.21
JORDAN SHOUBAK J09000 101	61			40.26													
PORTUGAL BRAGANCA P02000 101	61		1.10		LD	1.20				1.10			LD				
ROMANIA SEMENIC R01000 101	61			1.50	1.80												
ROMANIA SEMENIC R01000 102	61	1.30	1.30		1.60	1.30	0.90	0.70	0.10	1.80	2.60	8.70	2.10	2.054	2.308	1.32	2.94
ROMANIA FUNDATA R02000 102	61	2.70	2.30	1.30	1.90	1.70	3.40	1.10	2.10	3.30	4.00	2.50	2.50	2.399	0.884	2.25	1.46
ROMANIA TURIA R06000 101	61	2.60	3.30	1.60	1.60	1.60	0.60	0.40	0.70	2.50	2.10	1.80	3.50	1.874	0.999	1.56	1.99
ROMANIA TURIA R06000 102	61	1.60	2.20	0.50	0.50	0.70	0.90	1.90	0.80	2.70	4.30	4.40	4.60	2.091	1.573	1.55	2.31
ROMANIA RARAU R07000 102	61	1.30	1.60	1.70	1.90	0.70	0.50	0.60	0.50	2.50	1.70	1.90	0.10	1.249	0.745	0.95	2.48
ROMANIA STINA DE VALE R08000 101	61	3.00	1.50	1.40	2.10	3.10	4.90	0.60	0.60	1.60	1.80			2.059	1.304	1.70	1.96
ROMANIA STINA DE VALE R08000 102	61	6.20	2.10	1.60	0.80	0.70	0.70	0.60	0.70	1.80	2.80	3.00	2.10	2.091	2.103	1.51	2.21
ROMANIA PARING R09000 101	61				1.90												
ROMANIA PARING R09000 102	61	1.30	1.20	1.50	1.80	2.10	3.40	5.60	0.60			2.50	3.20	2.319	1.452	1.95	1.88

WORLD METEOROLOGICAL ORGANIZATION
PRECIPITATION NETWORK DATA
65316 - CHLORIDE
53 - PRECIP CONDUCTOMETRIC TITRATION
UNITS - 6_C - MG/L-MILLIGRAMS/LITER

														YEARLY			
														ARITHMETIC		GEOMETRIC	
	YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	MEAN	STDEV	MEAN	STDEV
HUNGARY KECSKEMET HU7000 101	61	4.00	4.00	0.37	3.40	0.53	0.74										
SWITZERLAND JUNGFRAUJOCH SZ4000 101	61					1.00	0.60	0.40	0.65	1.00	0.70	1.10	0.70	0.755	0.229	0.72	1.37
SWITZERLAND PAYERNE SZ7000 101	61					0.10	0.20	2.00	0.30		0.30	1.10	0.80	0.685	0.681	0.43	2.65

WORLD METEOROLOGICAL ORGANIZATION
PRECIPITATION NETWORK DATA
65316 - CHLORIDE
84 - PRECIP NEPHELOMETRIC

UNITS - 62 - MG/L-MILLIGRAMS/LITER

														YEARLY			
														ARITHMETIC		GEOMETRIC	
	YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	MEAN	STDEV	MEAN	STDEV
INDIA ALLAHABAD IN2000 101	81	1.33					LD	1.07	0.22	0.22							
INDIA JODHPUR IN4000 101	81			1.34				0.65	1.01	0.90		2.02					
INDIA KODAIKANAL IN4200 101	81	0.63		0.22	0.72	0.27	0.22	LD	0.22	0.22	LD	LD	LD	0.357	0.219	0.31	1.70
INDIA MINICOY IN4500 101	81		4.15		1.07	1.79	4.48	4.03	2.24	2.91	2.47	2.50		2.846	1.155	2.61	1.57
INDIA MOHANBARI IN5000 101	81	2.32	1.23	0.34	0.49	LD		0.22	0.27	0.22	0.34		0.30	0.636	0.705	0.44	2.25
INDIA NAGPUR IN5500 101	81	0.73		0.49		0.90	0.72		0.22	0.22	0.27			0.507	0.280	0.43	1.83
INDIA PUNE IN6000 101	81	1.03	1.00		0.78	0.72	1.55	1.95	2.00	0.45	0.45			1.103	0.595	0.96	1.75
INDIA PORT BLAIR IN7000 101	81	2.69	2.24		1.21	1.68	3.18	2.91	3.55	3.00	1.55	2.55	1.83	2.399	0.752	2.28	1.40
INDIA SRINAGAR IN8000 101	81	0.66	0.22	LD	1.79	1.39	0.67	0.54	0.45					0.617	0.561	0.66	2.01
INDIA VISAKAPATNAM IN9000 101	81				5.56	8.29	8.38	5.38	4.44	1.79	2.02	2.02		4.734	2.686	4.01	1.89

WORLD METEOROLOGICAL ORGANIZATION
PRECIPITATION NETWORK DATA
65316 - CHLORIDE
86 - PRECIP ISOTOPIC DILUTION(IVA)

UNITS - 6, - MG/L-MILLIGRAMS/LITER

	YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	YEARLY ARITHMETIC MEAN	YEARLY ARITHMETIC STDEV	YEARLY GEOMETRIC MEAN	YEARLY GEOMETRIC STDEV
FED REP GERMANY DEUSELBACH GE3000 101	81	1.44	1.06	0.86													
FED REP GERMANY LANGENBRUGGE GE6000 101	81	2.97	2.65	0.66													
FED REP GERMANY SCHAUINSLAND GE9000 101	81	0.83	0.25	0.44													

WORLD METEOROLOGICAL ORGANIZATION
PRECIPITATION NETWORK DATA
65316 - CHLORIDE
88 - PRECIP POTENTIOMETRIC

UNITS - 62 - MG/L-MILLIGRAMS/LITER

														YEARLY			
														ARITHMETIC		GEOMETRIC	
	YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	MEAN	STDEV	MEAN	STDEV
NETHERLANDS WITTEVEEN NL8000 101	61	8.30	3.20	1.20	4.20	1.00	1.80	0.60	2.20	1.70	3.30	8.90	3.65	3.376	2.574	2.62	2.10

WORLD METEOROLOGICAL ORGANIZATION
PRECIPITATION NETWORK DATA
65316 - CHLORIDE
90 - PRECIP ION CHROMATOGRAPHY

UNITS - 62 - MG/L-MILLIGRAMS/LITER

	YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	YEARLY ARITHMETIC MEAN	YEARLY ARITHMETIC STDEV	YEARLY GEOMETRIC MEAN	YEARLY GEOMETRIC STDEV
FED REP GERMANY BROTJACKLRIEGEL GE2000 101	81				0.56	0.20	0.81	0.02	0.21	0.04	0.04			0.268	0.303	0.12	4.15
FED REP GERMANY DEUSELBACH GE3000 101	81				0.26	0.44	0.90	0.29	0.32	0.25	0.33			0.398	0.229	0.36	1.56
FED REP GERMANY LANGENBRUGGE GE6000 101	81					0.71	0.98	0.70	0.73	0.06	0.87						
FED REP GERMANY SCHAUINSLAND GE9000 101	81				0.76	0.16	0.76	0.30	0.21	0.04	0.04			0.324	0.311	0.19	3.39

WORLD METEOROLOGICAL ORGANIZATION
PRECIPITATION NETWORK DATA
65318 - AMMONIUM
81 - PRECIP NESSLER'S REAGENT

- REPORTED AS NITROGEN
REPORTED AS NITROGEN
UNITS - 62 - MG/L-MILLIGRAMS/LITER

	YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	YEARLY ARITHMETIC MEAN	YEARLY ARITHMETIC STDEV	YEARLY GEOMETRIC MEAN	YEARLY GEOMETRIC STDEV
CZECHOSLOVAKIA CHOPOK CZ2000 101	81	2.10	1.65	0.64	3.34	0.92	0.61	1.17	1.05	0.68	0.70	0.68	0.48	1.184	0.846	0.99	1.80
CZECHOSLOVAKIA SVRATOUCH CZ8000 101	81	0.28	0.91	0.74	0.75	0.90	0.64	0.67	1.05	0.71	0.31	0.79	0.94	0.724	0.234	0.67	1.51
IRELAND VALENTIA OBSERVAT EI8000 101	81	0.01	0.27	0.01	0.67	0.07	0.01	0.01	0.06	0.01	0.01	0.02	0.22	0.114	0.196	0.03	4.75
GERMAN DEM REP NEUGLOBSOW GC7000 101	81	0.50	0.92	0.51	1.82	1.13	0.35	0.18	0.22	0.75	0.45	0.54	0.36	0.644	0.462	0.52	1.93
ITALY MONTE CIMONE IT4000 101	81	0.50	1.40	0.60	2.80	0.60	0.10	0.60	0.60	0.30	0.50		0.30	0.609	0.746	0.58	2.38
ITALY S.MARIA DI LEUCA IT7000 101	81	0.10	0.10	0.20	0.70	LD		LD	0.40	LD	LD	0.10	0.10	0.242	0.229	0.17	2.23
ITALY TRAPANI/BIRGI IT8000 101	81	0.20	0.10	0.10	0.70	LD	0.10				0.10	LD	0.10	0.199	0.223	0.14	2.09
ITALY VERONA IT8500 101	81	2.00	LD	1.60	1.60	0.50	1.00	0.20	1.30	0.60	0.50		2.20	1.149	0.693	0.52	2.16
ITALY VITERBO IT9000 101	81	1.60	3.10	2.50	0.50	0.80	LD	0.60	3.10	0.40	0.40		1.50	1.469	1.081	1.11	2.25
JORDAN SHOUBAK JO9000 101	81			0.36													
MALAYSIA CAMERON HIGHLANDS MY2000 101	81	0.06	0.06	0.06	0.03	0.18	0.46	0.05	0.18	0.03	0.03	LD	0.25	0.126	0.138	0.08	2.60
UNITED KINGDOM DUMFRIES SCOTLAND UK2000 101	81	0.20	0.40	0.30	1.50	0.70	0.60	0.20	1.50	0.30	0.10	0.30	0.40	0.541	0.477	0.39	2.23
USSR IRKUTSK UR4000 101	81	0.74	0.05	0.26			0.54	0.12	0.05	0.05	0.06			0.233	0.265	0.13	3.08

WORLD METEOROLOGICAL ORGANIZATION
PRECIPITATION NETWORK DATA
65318 - AMMONIUM
E1 - PRECIP NESSLER'S REAGENT

- REPORTED AS NITROGEN
REPORTED AS NITROGEN
UNITS - 62 - MG/L-MILLIGRAMS/LITER

	YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	YEARLY ARITHMETIC MEAN	 STDEV	 GEOMETRIC MEAN	 STDEV
USSR KURGAN UR5500 101	61	2.23	1.38	0.17	1.12	0.30	0.53	0.46		0.79	0.47	0.52	0.81	0.616	0.576	0.66	1.97
USSR NOVOPJATIGORSK UR6000 101	61	0.37	0.66	1.36	0.96	0.61	0.92	1.40	1.03	0.91	0.31	0.78	0.35	0.641	0.356	0.75	1.66
USSR SYATIVKAN UR7000 101	61	0.64	1.41	1.74	1.15	2.36	1.09	0.65	0.81	0.67	0.52	0.65	0.49	1.014	0.572	0.89	1.65
USSR TURUKHANSK UR8000 101	61	0.09	0.07	0.11	0.63	0.58	0.32	0.74	0.09	0.06	0.07	0.16	0.05	0.247	0.255	0.15	2.69

WORLD METEOROLOGICAL ORGANIZATION
PRECIPITATION NETWORK DATA
65318 - AMMONIUM - REPORTED AS NITROGEN
82 - PRECIP SODIUM PHENOLATE/HYPOCHLORITE REPORTED AS NITROGEN
UNITS - 62 - MG/L-MILLIGRAMS/LITER

	YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	YEARLY ARITHMETIC MEAN	YEARLY ARITHMETIC STDEV	YEARLY GEOMETRIC MEAN	YEARLY GEOMETRIC STDEV
DENMARK TANGE DA8000 101	81			0.52	1.52	6.00	1.40	4.50	1.24	0.78	0.06	0.40	0.98	1.739	1.537	1.56	3.64
FINLAND JOKIOINEN FI5000 101	81	0.16	0.38	0.57	0.40	2.68											
FINLAND SODANKYLA FI9000 101	81	LD	0.05	0.09	0.12	0.76											
FAEROE ISLANDS EJDE LORANSTATIO FO3000 101	81	LD	4.60	LD	LD	1.60	LD	LD	1.20	3.80	LD	LD	LD				
GREENLAND GODHAVN GL4000 101	81	0.16	0.34	LD	LD	LD	0.76	0.12	0.07	LD	LD	0.14					
HUNGARY KECSKEMET HU7000 101	81							0.40	1.16	1.01	0.85	1.25	0.45				
JAPAN RYORI JA9000 101	81	0.05	0.14	0.08	0.17	0.18	0.15						0.14	0.129	0.047	0.12	1.59
NETHERLANDS WITTEVEEN NL8000 101	81	0.65	1.16	0.84	3.06	1.62	0.88	1.34	1.46	1.16	0.81	1.12	1.24	1.308	0.653	1.19	1.53
POLAND JELENIA GORA PL5000 101	81	1.17			2.09	2.14	2.04	0.90	0.54	1.00	0.80	0.51	0.71	1.189	0.651	1.04	1.72
POLAND SUWALKI PL8000 101	81	1.93	0.86	1.95	2.13	1.63	0.99	1.17	0.87	1.20	0.84	1.58	1.43	1.381	0.461	1.31	1.40
PORTUGAL BRAGANCA PO2000 101	81		LD	0.32	0.24	0.12	0.92						LD				

WORLD METEOROLOGICAL ORGANIZATION
PRECIPITATION NETWORK DATA
65318 - AMMONIUM
83 - PRECIP COLORIMETRIC

- REPORTED AS NITROGEN
REPORTED AS NITROGEN
UNITS - 62 - MG/L-MILLIGRAMS/LITER

														YEARLY			
														ARITHMETIC		GEOMETRIC	
	YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	MEAN	STDEV	MEAN	STDEV
CANADA EDSON CA3000 101	81	0.21	0.13	0.57	0.30	0.26	0.01	0.01	0.02	0.16	0.14	0.28	0.17	0.189	0.156	0.10	3.93
CANADA HAY RIVER CA5030 101	81	0.04	0.17	0.24	0.21		0.04	0.03	1.18	0.95		0.01	LD	0.318	0.435	0.11	5.11
CANADA KELOWNA CA5050 101	81	0.42	0.01	0.31	0.49	0.10		0.01	0.06	0.08	0.02	0.23	0.28	0.182	0.171	0.09	4.19
CANADA MANIWAKI CA5100 101	81	1.80	0.13	0.87	0.75	0.41	0.09	0.44	0.06	0.26	0.03	0.16	0.53	0.460	0.502	0.26	3.29
CANADA MOULD BAY CA5400 101	81	0.05		0.05		0.17			0.78		0.13	LD	0.05				
CANADA MOUNT FOREST CA6000 101	81		0.86	0.99	0.82	0.67	0.60	0.44	0.44	0.49	0.37	0.50	0.80	0.635	0.206	0.60	1.38
CANADA PICKLE LAKE CA6050 101	81	0.05	0.10		0.15	0.06	0.06	0.16	0.02	0.16	0.01	LD	0.01	0.078	0.061	0.05	3.00
CANADA SABLE ISLAND CA7500 101	81	LD	0.02		0.02				LD		0.15						
CANADA WYNYARD CA9000 101	81		0.01	0.31	LD	0.18	LD	0.12	0.03	0.01							
FRANCE ABBEVILLE FR1000 101	81	1.02	0.69	0.96	2.05	1.46	0.67	0.87	3.53	1.74	0.60	0.79	0.13	1.209	0.900	0.93	2.25
FRANCE CARPENTRAS FR3000 101	81	0.12	0.25	0.16	0.39	0.16	0.22	0.38		0.12	0.19		0.04	0.202	0.112	0.17	1.93
FRANCE CHATEAUCHINON FR4000 101	81	0.17	0.47	0.40	1.18	0.20	0.26	0.99	0.52	0.53	0.13	0.50	0.12	0.455	0.334	0.35	2.11
FRANCE GOURDON FR6000 101	81	0.26	0.22		0.91	0.51	0.33	0.71	0.57	0.54	0.16	1.82	0.01	0.569	0.495	0.33	3.85

WORLD METEOROLOGICAL ORGANIZATION
PRECIPITATION NETWORK DATA
65318 - AMMONIUM
83 - PRECIP COLORIMETRIC

- REPORTED AS NITROGEN
REPORTED AS NITROGEN
UNITS - 62 - MG/L-MILLIGRAMS/LITER

	YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	YEARLY ARITHMETIC MEAN	 STDEV	 GEOMETRIC MEAN	 STDEV
FRANCE PHALSBOURG FR7000 101	81	0.19	0.29	0.63	2.56	0.40	1.25	0.37	1.76	1.12	0.20	1.65	0.16	0.681	0.782	0.58	2.64
FRANCE ROSTRENEN FR9000 101	81	0.27	0.19	0.25	0.84	0.31	0.31	0.36	1.76	0.06	0.18	0.68	0.08	0.457	0.486	0.29	2.62
HUNGARY KECSKEMET HU7000 101	81	0.09	1.08	0.50	1.47	1.10	1.24										
INDONESIA JAKARTA ID6000 102	81	0.90	1.20	0.60	0.60	0.60	1.20	1.30	2.10	1.30	1.40	0.20	0.40	0.999	0.522	0.85	1.90
INDIA ALLAHABAD IN2000 101	81	1.00					0.05	0.15	0.05	LD							
INDIA JODHPUR IN4000 101	81			0.08			0.48	0.74	0.03	LD		LD					
INDIA KODAIKANAL IN4200 101	81	0.57		0.23	0.62	0.19	1.24	0.50	0.01	LD	LD	LD	0.01	0.421	0.408	0.17	6.46
INDIA MINICOY IN4500 101	81		0.12		0.16	0.23	0.54	0.01	0.03	LD	0.05	0.03		0.146	0.176	0.07	3.67
INDIA MOHANBARI IN5000 101	81	1.43	1.23	0.61	0.43	LD		0.21	0.02	0.04	0.51		0.14	0.513	0.508	0.26	4.34
INDIA NAGPUR IN5500 101	81	0.09		0.47		0.11	0.01		0.04	0.13	0.37			0.174	0.175	0.09	3.71
INDIA PUNE IN6000 101	81	2.14	1.79		0.36	0.24	1.18	0.26	0.20	0.20	0.40			0.752	0.756	0.48	2.59
INDIA PORT BLAIR IN7000 101	81	0.09	LD		0.31	LD	0.01	LD	LD	0.03	0.03	0.03	0.03	0.075	0.106	0.04	2.96
INDIA SRINAGAR IN8000 101	81	0.11	0.06	LD	LD	0.05	0.20	0.17	LD								

WORLD METEOROLOGICAL ORGANIZATION
PRECIPITATION NETWORK DATA
65318 - AMMONIUM
83 - PRECIP COLORIMETRIC

- REPORTED AS NITROGEN
REPORTED AS NITROGEN
UNITS - 6 - MG/L-MILLIGRAMS/LITER

														YEARLY			
														ARITHMETIC		GEOMETRIC	
	YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	MEAN	STDEV	MEAN	STDEV
INDIA VISAKAPATNAM IN9000 101	81				LD	LD	0.05	0.08		LD	1.93						
SWEDEN BREDKALEN SW1000 101	81	LD	LD	0.09	LD	0.64	LD	0.01	LD	1.12	0.07	0.05	0.06	0.294	0.424	1.10	4.91
SWEDEN VELEN SW9000 101	81	0.08	0.55	0.29	0.78	0.77	0.31	0.59	0.07	0.43	0.33	0.10	0.32	0.384	0.246	0.29	2.32
SWITZERLAND JUNGFRAUJOCH SZ4000 101	81					0.64	0.50	0.41	0.59	0.26	0.21	0.05	0.20	0.361	0.203	1.30	2.01
SWITZERLAND PAYERNE SZ7000 101	81					LD	0.54	0.17	0.28		0.52	2.10	0.86				

WORLD METEOROLOGICAL ORGANIZATION
PRECIPITATION NETWORK DATA
65318 - AMMONIUM
84 - PRECIP INDOPHENOL

- REPORTED AS NITROGEN
REPORTED AS NITROGEN
UNITS - 62 - MG/L-MILLIGRAMS/LITER

														YEARLY			
														ARITHMETIC		GEOMETRIC	
	YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	MEAN	STDEV	MEAN	STDEV
FINLAND JOKIOINEN FI5000 101	81						0.66	0.66	0.28	1.80	0.30	0.30	0.24	0.634	0.564	0.48	2.12
FINLAND SODANKYLA FI9000 101	81						0.21	0.27	0.20	0.43	0.26	0.03	0.02	0.202	0.143	0.13	3.29
FED REP GERMANY BROTJACKLRIEGEL GE2000 101	81				1.15	0.33	0.76	0.40	0.50	0.30	0.25			0.527	0.323	0.45	1.72
FED REP GERMANY DEUSELBACH GE3000 101	81	0.23	0.30	0.35	0.90	0.35	0.37	0.45	0.54	0.05	0.12			0.365	0.237	0.28	2.24
FED REP GERMANY LANGENBRUGGE GE6000 101	81	0.46	1.41	0.57		0.70	0.25	1.24		0.21	0.38			0.652	0.446	0.53	1.99
FED REP GERMANY SCHAUINSLAND GE9000 101	81	0.17	0.29	0.06	0.62	0.15	0.34	0.20	0.37	0.16	0.09			0.244	0.166	0.19	2.00
NORWAY AS NO1000 101	81							0.38	11.60	2.00	0.56	0.36	1.16				
NORWAY BIRKENES NO2000 101	81							0.35	2.13	0.68	0.54	0.29	0.30				
NORWAY KISE NO5000 101	81							0.62	0.56	0.86	0.44	0.20	1.00				

WORLD METEOROLOGICAL ORGANIZATION
PRECIPITATION NETWORK DATA
65318 - NH4-(N)
85 - PRECIP SPECIFICION ELECTRODE

UNITS - 62 - MG/L-MILLIGRAMS/LITER

														YEARLY			
														ARITHMETIC		GEOMETRIC	
	YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	MEAN	STDEV	MEAN	STDEV
ROMANIA SEMENIC R01000 101	81			3.89	0.10												
ROMANIA SEMENIC R01000 102	81	1.99	0.66		0.45	1.74	0.81	0.68	0.02	0.32	0.55	LD	0.45	0.766	0.620	0.49	3.55
ROMANIA FUNDATA R02000 102	81	0.65	0.20	2.00	0.38	0.65	2.19	1.58	1.11	1.20	0.37	0.69	0.19	0.934	0.685	0.70	2.29
ROMANIA TURIA R06000 101	81	0.69	1.95	2.51	0.14	0.13	0.14	0.25	LD	0.46	0.22	0.60	0.21	0.681	0.810	0.39	2.67
ROMANIA TURIA R06000 102	81	1.45	4.17	3.47	1.66	LD	0.30	0.93	1.76	LD	LD	0.49	0.39	1.626	1.368	1.14	2.54
ROMANIA RARAU R07000 102	81	1.26	0.20	1.98	0.19	0.55	LD	0.40	0.51	1.78	1.17	0.32	0.02	0.761	0.675	0.44	3.73
ROMANIA STINA DE VALE R08000 101	81	0.74	0.79	1.74	0.25	0.51	1.15	0.03	LD	0.79	0.02			0.668	0.552	0.34	4.92
ROMANIA STINA DE VALE R08000 102	81	2.45	1.82	2.00	0.47	0.34	0.85	LD	1.46	0.95	0.49	0.76	1.23	1.167	0.693	0.57	1.90
ROMANIA PARING R09000 101	81				LD												
ROMANIA PARING R09000 102	81	0.16	0.87	1.20	0.34	0.41	0.67	0.34	0.65			0.49	0.55	0.567	0.299	0.49	1.75

WORLD METEOROLOGICAL ORGANIZATION
PRECIPITATION NETWORK DATA
65321 - NITRATE
81 - PRECIP NESSLER'S REAGENT

- REPORTED AS NITROGEN
REPORTED AS NITROGEN
UNITS - 62 - MG/L-MILLIGRAMS/LITER

														YEARLY			
														ARITHMETIC		GEOMETRIC	
	YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	MEAN	STDEV	MEAN	STDEV
CZECHOSLOVAKIA CHOPOK C22000 101	81	0.54	0.69	0.30	1.06	0.32	0.27	0.57	0.43	0.27	0.39	0.51	0.56	0.494	0.229	0.45	1.51
CZECHOSLOVAKIA SVRATOUCH C28000 101	81	0.43	0.90	0.53	0.62	0.61	0.36	0.40	0.51	0.40	0.96	0.67	0.84	0.604	0.202	0.57	1.38
IRELAND VALENTIA OBSERVAT EI8000 101	81	0.03	0.32	0.19	1.00	0.11	0.01	0.01	0.05	0.01	0.01	0.03	0.13	0.156	0.281	0.05	4.73
JAPAN RYORI JA9000 101	81	0.08	0.20		0.17	0.09	0.09	0.15	LD				0.21	0.141	0.054	0.13	1.50
JORDAN SHOUBAK J09000 101	81			0.23													
MALAYSIA CAMERON HIGHLANDS MY2000 101	81	0.08	0.06	0.03	0.02	0.22	0.46	0.13	0.16	0.03	0.03	0.62	0.42	0.193	0.203	0.10	2.32
PORTUGAL BRAGANCA PO2000 101	81		0.63	0.23	0.19	0.13				0.25			LD				
UNITED KINGDOM DUMFRIES SCOTLAND UK2000 101	81	LD	0.30	0.20	1.00	0.80	0.10	LD	0.20	LD	0.20	LD	0.60	0.424	0.332	0.32	2.23
USSR IRKUTSK UR4000 101	81	0.65	0.54	0.67			0.29	0.11	LD	LD	0.03						
USSR KURGAN UR5500 101	81	0.06	0.02	0.05	0.11	0.06	0.13	0.11		0.21		0.15	0.10	0.099	0.055	0.08	1.96
USSR NOVOPJATIGORSK UR6000 101	81	0.09	0.98	0.10	0.14	0.05	0.07	0.08	0.07	0.58	0.32	0.36	0.06	0.241	0.284	0.14	2.68
USSR SYKTIVKAR UR7000 101	81	0.23	0.02	0.47	0.22	0.09	0.01	0.02	0.08	0.25	0.14	0.29	0.42	0.186	0.154	0.10	3.63
USSR TURUKHANSK UR8000 101	81	0.39	0.30	0.42	0.26	0.20	0.14	0.11	0.07	LD	0.03	0.13	0.05	0.192	0.136	0.14	2.36

WORLD METEOROLOGICAL ORGANIZATION
PRECIPITATION NETWORK DATA
65321 - NITRATE
82 - PRECIP HYDRAZINE REDUCTION

- REPORTED AS NITROGEN
REPORTED AS NITROGEN
UNITS - 62 - MG/L-MILLIGRAMS/LITER

	YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	YEARLY ARITHMETIC MEAN	STDEV	GEOMETRIC MEAN	STDEV
DENMARK TANGE DA8000 101	81			0.46	0.42	0.21	0.33	0.03	2.00	0.56	0.01	0.29	0.35	0.465	0.566	0.23	4.55
FINLAND JOKIOINEN FI5000 101	81	0.41	0.43	0.69	0.16	1.40	0.24	0.44	0.18	0.80	0.28	0.34	0.38	0.479	0.346	0.39	1.86
FINLAND SODANKYLA FI9000 101	81	0.11	0.14	0.34	0.13	0.58	0.16	0.14	0.10	0.20	0.18	0.28	0.06	0.201	0.142	0.16	1.82
FAEROE ISLANDS EJDE LORANSTATIO FO3000 101	81	0.07	0.52	0.07	0.11	0.20	0.02	LD	0.04	0.26	0.04	0.02	0.12	0.133	0.148	0.08	2.83
GREENLAND GODHAVN GL4000 101	81	0.18	0.02	LD	LD	LD	0.06	0.04	0.02	LD	LD	0.02					
ITALY MONTE CIMONE IT4000 101	81	0.72	0.13	0.67	1.59	0.26	0.22	0.45	0.29	0.28	0.44		0.08	0.466	0.424	0.34	2.29
ITALY S.MARIA DI LEUCA IT7000 101	81	0.09	0.20	0.06	0.49	1.19		LD	0.39	0.17	0.04	0.62	0.39	0.363	0.349	0.22	2.97
ITALY TRAPANI/BIRGI IT8000 101	81	0.33	LD	LD	0.09	0.02	LD				0.37	0.01	0.28				
ITALY VERONA IT8500 101	81	0.50	1.72	0.98	0.93	0.44	0.55	0.15	0.32	0.48	0.29		0.66	0.638	0.438	0.52	1.93
ITALY VITERBO IT9000 101	81	0.96	1.95	1.43	0.67	0.60	0.37	0.88	0.60	0.44	0.42		0.93	0.859	0.473	0.75	1.67
POLAND JELENIA GORA PL5000 101	81	1.24			1.40	1.33	1.49	0.54	0.44	0.88	0.93	0.83	1.21	1.028	0.361	0.96	1.51
POLAND SUWALKI PL8000 101	81	1.01	0.62	1.05	0.93	0.54	0.36	0.55	0.43	0.32	0.50	0.79	0.93	0.669	0.260	0.62	1.50

WORLD METEOROLOGICAL ORGANIZATION
PRECIPITATION NETWORK DATA
65321 - NITRATE
83 - PRECIP COLORIMETRIC

- REPORTED AS NITROGEN
REPORTED AS NITROGEN
UNITS - 62 - MG/L-MILLIGRAMS/LITER

														YEARLY			
														ARITHMETIC		GEOMETRIC	
	YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	MEAN	STDEV	MEAN	STDEV
CANADA EDSON CA3000 101	81	0.25	0.27	0.53	0.26	0.18	0.05	0.11	0.09	0.11	0.14	0.20	0.28	0.207	0.128	0.17	1.89
CANADA HAY RIVER CA5030 101	81	0.19	0.11	0.16	0.21		0.05	LD	0.06	0.09		0.12	LD	0.126	0.055	0.11	1.61
CANADA KELOWNA CA5050 101	81	0.31	0.04	0.24	LD	0.05		0.03	0.03	0.12	0.13	0.21	0.17	0.134	0.098	0.09	2.45
CANADA MANIWAKI CA5100 101	81	1.66	0.33	0.72	0.74	0.51	0.28	0.34	LD	0.46	0.38	0.36	0.74	0.610	0.448	0.57	1.72
CANADA MOULD BAY CA5400 101	81	0.04		0.04		0.11			0.02		0.04	0.02	0.09	0.052	0.035	0.04	1.90
CANADA MOUNT FOREST CA6000 101	81		1.13	0.61	0.93	0.72	0.40	0.44	0.55	0.38	0.27	0.37	1.05	0.641	0.301	0.57	1.62
CANADA PICKLE LAKE CA6050 101	81	0.27	0.27		0.24	0.38	0.09	0.35	0.03	0.17	0.08	LD	LD	0.208	0.123	0.16	2.31
CANADA SABLE ISLAND CA7500 101	81	0.10	0.01		0.28				LD		0.12						
CANADA WYNYARD CA9000 101	81		0.85	0.64	0.49	0.31	0.09	0.18	0.19	0.05				0.349	0.284	0.24	2.65
FRANCE ABBEVILLE FR1000 101	81	0.63	0.68	0.50	1.05	0.40	0.77	0.60	0.31	0.19	0.29	0.38	1.70	0.641	0.417	0.33	1.84
FRANCE CARPENTRAS FR3000 101	81	0.47	0.73	0.35	0.63	0.42	0.46	0.76		0.51	0.33		0.63	0.528	0.151	0.50	1.33
FRANCE CHATEAUCHINON FR4000 101	81	0.13	0.42	0.37	0.63	0.16	0.22	0.37	0.28	0.25	0.09	0.23	0.28	0.285	0.147	0.25	1.70
FRANCE GOURDON FR6000 101	81	0.26	0.16	0.20	0.63	0.24	0.22	0.41	0.61	0.43	0.13	0.74	0.38	0.367	0.202	0.31	1.76

WORLD METEOROLOGICAL ORGANIZATION
PRECIPITATION NETWORK DATA
65321 - NITRATE
83 - PRECIP COLORIMETRIC

- REPORTED AS NITROGEN
REPORTED AS NITROGEN
UNITS - 62 - MG/L-MILLIGRAMS/LITER

	YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	YEARLY ARITHMETIC MEAN	YEARLY ARITHMETIC STDEV	YEARLY GEOMETRIC MEAN	YEARLY GEOMETRIC STDEV
FRANCE PHALSBOURG FR7000 101	81	0.37	0.76	0.40	1.53	0.53	0.58	0.72	0.71	0.48	0.14	0.48	0.63	0.610	0.337	0.53	1.75
FRANCE ROSTRENEN FR9000 101	81	0.14	0.18	0.12	0.53	0.26	0.59	0.37	0.10	0.09	0.07	0.45	0.46	0.279	0.189	0.21	2.14
GERMAN DEM REP NEUGLOBSOW GC7000 101	81	0.65	0.98	0.62	1.93	0.96	0.68	0.02	0.35	0.54	0.54	0.49	0.37	0.677	0.472	0.48	3.02
HUNGARY KECSKEMET HU7000 101	81	0.95	1.69	0.50	1.22	0.66	0.38	0.34	0.54	0.43	0.81	0.90	0.47	0.740	0.401	0.65	1.64
INDONESIA JAKARTA ID6000 102	81	0.30	0.50	0.40	0.30	0.20	0.50	0.50	0.80	0.50	0.40	0.30	0.20	0.408	0.167	0.37	1.50
INDIA ALLAHABAD IN2000 101	81	0.49					0.20	0.76	0.24	1.16							
INDIA JODHPUR IN4000 101	81			0.51			0.26	0.30	0.88	0.83							
INDIA KODAIKANAL IN4200 101	81	0.04		0.12	0.25	0.11	0.03	0.10	0.05	0.03	0.04	0.01	0.08	0.078	0.067	0.05	2.40
INDIA MINICOY IN4500 101	81		1.60		0.03	1.32	0.53	0.97	0.20	0.14	0.11	0.21		0.567	0.585	0.30	3.73
INDIA MOHANBARI IN5000 101	81	2.18	LD	1.64	0.90	0.66		0.14	0.28	0.37	0.91		0.37	0.827	0.681	0.60	2.40
INDIA NAGPUR IN5500 101	81	0.21		0.37		0.53	0.56		0.18	0.26							
INDIA PUNE IN6000 101	81	0.88	0.95			0.34	1.01	0.19	0.16	0.13	0.25			0.488	0.385	0.36	2.33
INDIA PORT BLAIR IN7000 101	81	1.54	0.25		0.23			0.56	0.65			0.43	0.04	0.528	0.492	0.34	3.13

WORLD METEOROLOGICAL ORGANIZATION
PRECIPITATION NETWORK DATA
65321 - NITRATE
83 - PRECIP COLORIMETRIC

- REPORTED AS NITROGEN
REPORTED AS NITROGEN
UNITS - 62 - MG/L-MILLIGRAMS/LITER

														YEARLY			
														ARITHMETIC		GEOMETRIC	
	YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	MEAN	STDEV	MEAN	STDEV
INDIA SRINAGAR IN8000 101	81	2.14	1.05	0.80	1.89		1.09	0.66									
INDIA VISAKAPATNAM IN9000 101	81				1.65	3.30	2.08	1.05									
NORWAY AS NO1000 101	81							0.24	0.40	0.77	0.66	0.50	1.20				
NORWAY BIRKENES NO2000 101	81							0.30	0.38	0.78	0.55	0.35	0.49				
NORWAY KISE NO5000 101	81							0.33	0.29	0.60	0.46	0.52	1.50				
ROMANIA SEMENIC RO1000 101	81			0.13	0.16												
ROMANIA SEMENIC RO1000 102	81	0.89	0.20		0.20	0.08	0.04	0.42	0.37	0.25	0.30	0.27	0.26	0.298	0.225	0.22	2.27
ROMANIA FUNDATA RO2000 102	81	0.49	0.39	0.73	0.31	0.02	0.35	0.42	0.36	0.29	0.26	0.21	0.22	0.337	0.172	0.27	2.43
ROMANIA TURIA RO6000 101	81	0.25	0.55	0.49	0.55	0.05	0.12	0.05	0.02	0.26	0.31	0.06	0.16	0.239	0.198	0.15	2.99
ROMANIA TURIA RO6000 102	81	0.49	0.80	0.65	0.61	0.02	0.17	0.18	0.29	0.09	0.05	0.28	0.21	0.319	0.256	0.20	3.02
ROMANIA RARAU RO7000 102	81	0.46	0.32	0.60	0.38	0.09	LD	0.15	0.30	0.33	0.36	0.31	0.18	0.334	0.188	0.28	1.79
ROMANIA STINA DE VALE RO8000 101	81	0.16	0.22	0.49	0.26	0.12	0.51	0.30	0.02	0.16	0.19			0.244	0.155	0.18	2.50
ROMANIA STINA DE VALE RO8000 102	81	0.38	0.33	0.57	0.32	0.08	0.37	0.22	0.13	0.04	0.06	0.29	0.21	0.249	0.157	0.19	2.29

WORLD METEOROLOGICAL ORGANIZATION
PRECIPITATION NETWORK DATA
65321 - NITRATE
83 - PRECIP COLORIMETRIC

- REPORTED AS NITROGEN
REPORTED AS NITROGEN
UNITS - 62 - MG/L-MILLIGRAMS/LITER

	YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	YEARLY ARITHMETIC MEAN	YEARLY ARITHMETIC STDEV	YEARLY GEOMETRIC MEAN	YEARLY GEOMETRIC STDEV
ROMANIA PARING R09000 101	81				0.56												
ROMANIA PARING R09000 102	81	0.43	0.66	0.62	0.61	0.56	0.45	0.41	0.40			0.43	0.38	0.494	0.105	0.48	1.23
SWEDEN BREDKALEN SW1000 101	81	0.23	0.18	0.27	0.21	0.50	0.01	0.05	0.01	0.29	0.17	0.14	0.25	0.192	0.136	0.12	3.61
SWEDEN VELEN SW9000 101	81	0.17	0.37	0.51	0.46	0.45	0.22	0.28	0.13	0.29	0.40	0.20	0.57	0.337	0.143	0.30	1.60
SWITZERLAND JUNGFRAUJOCH SZ4000 101	81					0.22	0.23	0.16	0.28	0.15	0.12	0.09	0.15	0.174	0.063	0.16	1.44
SWITZERLAND PAYERNE SZ7000 101	81					0.10	0.52	0.45	0.50		0.36	1.58	0.34	0.549	0.475	0.41	2.25

WORLD METEOROLOGICAL ORGANIZATION
PRECIPITATION NETWORK DATA
65321 - NITRATE
84 - PRECIP ULTRA-VIOLET

- REPORTED AS NITROGEN
REPORTED AS NITROGEN
UNITS - 62 - MG/L-MILLIGRAMS/LITER

	YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	YEARLY ARITHMETIC MEAN	YEARLY ARITHMETIC STDEV	YEARLY GEOMETRIC MEAN	YEARLY GEOMETRIC STDEV
FED REP GERMANY DEUSELBACH GE3000 101	81	0.27	0.49	0.31													
FED REP GERMANY LANGENBRUGGE GE6000 101	81	0.45	1.43	0.73													
FED REP GERMANY SCHAUINSLAND GE9000 101	81	0.27	0.34	0.22													
NETHERLANDS WITTEVEEN NL8000 101	81	0.52	0.67	0.45	1.46	1.30	0.60	0.85	0.80	0.73	0.43	0.59	0.52	0.726	0.334	0.66	1.56

WORLD METEOROLOGICAL ORGANIZATION
PRECIPITATION NETWORK DATA
65321 - NITRATE
89 - PRECIP ION CHROMATOGRAPHY

- REPORTED AS NITROGEN
REPORTED AS NITROGEN
UNITS - 62 - MG/L-MILLIGRAMS/LITER

														YEARLY			
														ARITHMETIC		GEOMETRIC	
	YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	MEAN	STDEV	MEAN	STDEV
FED REP GERMANY BROTJACKLRIEGEL GE2000 101	81				1.03	1.00	0.66	0.42	0.65	0.43	0.28			0.638	0.289	0.58	1.61
FED REP GERMANY DEUSELBACH GE3000 101	81				0.91	0.44	0.69	0.55	0.83	0.26	0.24			0.559	0.264	0.50	1.70
FED REP GERMANY LANGENBRUGGE GE6000 101	81					1.04	0.71	1.14	0.82	0.74	0.52						
FED REP GERMANY SCHAUINSLAND GE9000 101	81				0.66	0.20	0.52	0.24	0.45	0.26	0.16			0.358	0.194	0.31	1.71

WORLD METEOROLOGICAL ORGANIZATION
PRECIPITATION NETWORK DATA
65322 - SULFATE - REPORTED AS SULFUR
81 - PRECIP COLORIMETRIC

UNITS - 62 - MG/L-MILLIGRAMS/LITER

	YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	YEARLY ARITHMETIC MEAN	YEARLY ARITHMETIC STDEV	YEARLY GEOMETRIC MEAN	YEARLY GEOMETRIC STDEV
CANADA EDSON CA3000 101	81	1.00	0.40	1.20	0.80	0.60	0.50	0.50	0.60	0.40	0.40	1.10	0.50	0.666	0.287	0.61	1.49
CANADA HAY RIVER CA5030 101	81	1.20	0.60	0.70	0.50		1.80	0.40	0.40	0.30		0.40	0.30	0.659	0.481	0.55	1.80
CANADA KELOWNA CA5050 101	81	0.20	0.10	0.30	0.30	0.30		0.50	0.40	0.30	0.10	0.10	0.20	0.254	0.129	0.22	1.77
CANADA MANIWAKI CA5100 101	81	1.70	0.40	1.60	1.50	1.30	0.90	1.90	0.80	1.40	0.80	0.60	0.70	1.133	0.450	1.02	1.62
CANADA MOULD BAY CA5400 101	81	0.50		0.70		0.50		0.70	0.50		1.00	0.70	0.80	0.674	0.175	0.65	1.28
CANADA MOUNT FOREST CA6000 101	81		1.50	1.70	1.70	1.60	1.00	1.10	1.90	1.40	0.80	0.90	1.40	1.381	0.381	1.32	1.34
CANADA PICKLE LAKE CA6050 101	81	0.50	0.30		0.50	1.10	0.40	0.70	0.50	0.50	0.40	0.40	0.30	0.509	0.225	0.47	1.44
CANADA SABLE ISLAND CA7500 101	81	2.20	2.30		2.20				0.30		2.60						
CANADA WYNYARD CA9000 101	81		1.20	1.20	0.60	0.90	0.50	0.30	0.30	0.60				0.724	0.361	0.63	1.74
CZECHOSLOVAKIA CHOPOK CZ2000 101	81	2.57	3.70	1.17	4.75	1.60	1.34	2.59	1.97	1.37	1.30	1.55	1.12	2.102	1.129	1.88	1.59
CZECHOSLOVAKIA SVRATOUCH CZ8000 101	81	2.06	2.24	2.33	1.52	1.61	1.11	1.20	1.21	1.68	0.90	1.42	1.55	1.635	0.443	1.57	1.33
DENMARK TANGE DA8000 101	81			0.85	1.47	1.55	2.30	2.00	0.55	1.35	1.38	3.00	1.16	1.562	0.712	1.41	1.62
IRELAND VALENTIA OBSERVAT EI8000 101	81	3.50	0.90	0.64	2.30	0.63	0.59	1.18	1.32	0.60	1.77	1.25	1.23	1.342	0.645	1.15	1.73

WORLD METEOROLOGICAL ORGANIZATION
PRECIPITATION NETWORK DATA
65322 - SULFATE - REPORTED AS SULFUR
81 - PRECIP COLORIMETRIC
UNITS - 62 - MG/L-MILLIGRAMS/LITER

	YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	YEARLY ARITHMETIC MEAN	YEARLY ARITHMETIC STDEV	YEARLY GEOMETRIC MEAN	YEARLY GEOMETRIC STDEV
FINLAND JOKIOINEN FI5000 101	81	0.70	0.90	1.50	0.90	5.30	1.10	2.00	0.80	3.80	0.70	0.80	0.60	1.591	1.471	1.21	2.01
FINLAND SODANKYLA FI9000 101	81	0.20	0.10	0.50	0.60	2.60	0.70	0.60	0.60	0.90	0.50	0.10	0.30	0.641	0.663	0.44	2.51
FAEROE ISLANDS EJDE LOKANSTATIO FO3000 101	81	1.30	2.75	2.52	0.85	1.80	0.46	0.48	0.45	1.17	2.32	1.45	1.32	1.407	0.800	1.16	1.91
FRANCE ABBEVILLE FR1000 101	81	2.35	3.30	1.60	3.20	1.60	2.00	1.65	2.30	1.00	1.25	2.45	0.73	1.969	0.800	1.80	1.57
FRANCE CARPENTRAS FR3000 101	81	1.35	2.10	1.10	2.15	1.65	1.95	3.00		1.40	1.60		0.36	1.685	0.708	1.50	1.77
FRANCE CHATEAUCHINON FR4000 101	81	0.40	1.15	0.60	1.65	0.50	0.75	1.15	0.75	0.70	0.40	0.85	0.25	0.762	0.395	0.67	1.69
FRANCE GOURDON FR6000 101	81	0.65	0.90	0.65	2.30	0.95	0.90	1.35	1.50	1.15	0.60	2.30	0.16	1.150	0.634	0.96	2.00
FRANCE PHALSBOURG FR7000 101	81	1.00	1.65	1.10	2.95	1.20	1.95	1.50	1.80	0.95	0.50	1.60	0.43	1.385	0.688	1.22	1.73
FRANCE ROSTRENEN FR9000 101	81	0.35	0.90	0.65	1.50	0.95	1.20	1.15	2.65	0.35	0.50	2.45	0.14	1.065	0.800	0.79	2.35
GREENLAND GODHAVN GL4000 101	81	2.07	2.62	LD	LD	LD	0.88	0.25	0.20	LD	LD	0.87					
INDIA ALLAHABAD IN2000 101	81	0.33					0.22	0.05	0.08	0.05							
INDIA JODHPUR IN4000 101	81			0.33			0.02	0.24	0.15	0.15		0.37					
INDIA KODAIKANAL IN6200 101	81	0.35		0.27	0.39	0.09	0.05	0.07	0.05	LD	LD	0.05	0.05	0.152	0.142	0.10	2.45

WORLD METEOROLOGICAL ORGANIZATION
PRECIPITATION NETWORK DATA
653_{22} - SULFATE - REPORTED AS SULFUR
81 - PRECIP COLORIMETRIC

UNITS - 6_2 - MG/L-MILLIGRAMS/LITER

	YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	YEARLY ARITHMETIC MEAN	YEARLY ARITHMETIC STDEV	YEARLY GEOMETRIC MEAN	YEARLY GEOMETRIC STDEV
INDIA MINICOY IN4500 101	81		0.16		0.01	0.16	0.77	0.23	0.36	0.21	0.15	0.10		0.236	0.220	0.15	3.27
INDIA MOHANBARI IN5000 101	81	0.60	0.68	0.71	0.49	0.16		0.33	0.05	LD	0.18		0.08	0.364	0.261	0.25	2.64
INDIA NAGPUR IN5500 101	81	0.30		0.40		0.04	0.15		0.05	0.15	0.10			0.169	0.133	0.12	2.34
INDIA PUNE IN6000 101	81	0.64	0.61		0.66	0.54	0.44	0.35	0.46	0.40	0.57			0.545	0.151	0.52	1.31
INDIA PORT BLAIR IN7000 101	81	0.75	0.56		0.80	0.10	0.26	0.23	0.26	0.07	0.10	0.19	0.19	0.319	0.261	0.23	2.25
INDIA SRINAGAR IN8000 101	81	0.54	0.36	0.43	0.68	0.34	0.19	0.26	0.15					0.368	0.178	0.33	1.66
INDIA VISAKAPATNAM IN9000 101	81				1.03	0.68	0.28	0.37	1.15	0.26	1.39	1.13		0.786	0.445	0.65	1.98
ITALY MONTE CIMONE IT4000 101	81	1.10	2.50	1.70	0.70	0.90	0.90	0.60	0.40	0.60	0.30		0.30	0.927	0.656	0.75	1.95
ITALY S.MARIA DI LEUCA IT7000 101	81	0.80	1.40	1.20	1.10	0.90		0.60	1.50	0.60	0.40	0.40	0.40	0.863	0.398	0.77	1.64
ITALY TRAPANI/BIRGI IT8000 101	81	0.60	1.20	1.40	0.40	0.60	1.00				0.50	0.40	0.40	0.744	0.377	0.66	1.64
ITALY VERONA IT8500 101	81	0.60	3.30	1.60	0.90	1.40	1.30	0.90	0.70	0.60	0.30		0.40	1.109	0.832	0.90	1.94
ITALY VITERBO IT9000 101	81	0.70	0.40	1.40	1.10	0.90	1.00	0.50	0.60	0.50	0.40		0.30	0.709	0.347	0.63	1.62
JAPAN RYORI JA9000 101	81	0.54	0.83		0.62	0.48	0.39	0.50	0.75				0.97	0.634	0.158	0.60	1.36

WORLD METEOROLOGICAL ORGANIZATION
PRECIPITATION NETWORK DATA
65322 - SULFATE - REPORTED AS SULFUR
81 - PRECIP COLORIMETRIC

UNITS - 62 - MG/L-MILLIGRAMS/LITER

														YEARLY ARITHMETIC		GEOMETRIC	
	YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	MEAN	STDEV	MEAN	STDEV
NORWAY AS NO1000 101	81							0.96	3.36	1.35	1.06	0.76	1.02				
NORWAY BIRKENES NO2000 101	81							1.15	2.14	1.45	0.89	0.65	0.79				
NORWAY KISE NO5000 101	81							1.53	0.93	2.10	1.05	0.47	2.40				
POLAND JELENIA GORA PL5000 101	81	3.57			3.45	4.08	4.46	2.43	1.87	3.30	2.21	2.18	3.14	3.068	0.666	2.95	1.34
POLAND SUWALKI PL8000 101	81	3.62	2.01	2.76	3.04	2.25	1.41	2.07	1.32	1.60	1.32	1.39	1.13	2.011	0.787	1.88	1.45
SWEDEN BREDKALEN SW1000 101	81	0.21	0.40	0.45	0.95	3.20	0.46	0.73	0.21	1.65	0.55	0.16	0.26	0.770	0.870	0.51	2.42
SWEDEN VELEN SW9000 101	81	0.30	1.36	0.64	1.56	1.66	0.69	1.26	0.40	1.10	0.58	0.42	1.17	0.971	0.459	0.85	1.76
USSR IRKUTSK UR4000 101	81	1.25	0.30	0.98			1.06	0.42	0.33	0.46	0.59			0.676	0.271	0.59	1.74
USSR KURGAN UR5500 101	81	6.08		6.69	3.10	0.65	1.70	1.03		0.57		1.42	0.93	2.707	2.628	1.78	2.53
USSR NOVOPJATIGORSK UR6000 101	81	0.72	2.03	1.53	1.22	0.60	0.73	1.28	1.10	0.65	0.50	0.63	0.31	0.958	0.489	0.85	1.68
USSR SYKTIVKAR UR7000 101	81	0.70	2.08	2.26	5.96	5.03	1.20	1.07	1.67	0.65	0.77	1.43	0.33	1.929	1.774	1.38	2.31
USSR TURUKHANSK UR8000 101	81	0.94	1.12	1.59	2.15	1.37	0.85	0.67	0.97	0.63	0.65	0.64	0.56	1.028	0.470	0.94	1.50

WORLD METEOROLOGICAL ORGANIZATION
PRECIPITATION NETWORK DATA
65322 - SULFATE - REPORTED AS SULFUR
82 - PRECIP PHOTOMETRIC TITRATION
UNITS - 62 - MG/L-MILLIGRAMS/LITER

	YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	YEARLY ARITHMETIC MEAN	YEARLY ARITHMETIC STDEV	YEARLY GEOMETRIC MEAN	YEARLY GEOMETRIC STDEV
JORDAN SHOUBAK J09000 101	61			0.64													
PORTUGAL BRAGANCA P02000 101	61			1.45	1.50	1.65				1.50			0.25				
ROMANIA SEMENIC R01000 101	61			3.10	1.90												
ROMANIA SEMENIC R01000 102	61	0.60	LB		0.90	3.60	4.70	4.00	3.90	7.60	3.10	14.20	8.10	5.089	4.006	3.63	2.61
ROMANIA FUNDATA R02000 102	61	2.70	5.00	3.30	3.40	3.50	6.10	4.20	4.10	8.70	11.70	3.60	5.60	5.158	2.632	4.69	1.53
ROMANIA TURIA R06000 101	61	1.60	0.80	1.40	1.40	1.40	1.00	1.30	1.60	5.70	4.60	4.20	3.90	2.424	1.677	1.97	1.92
ROMANIA TURIA R06000 102	61	2.50	5.20	4.60	3.10	2.30	2.20	1.10	3.60	3.80	8.00	4.70	3.30	3.649	1.807	3.26	1.66
ROMANIA RARAU R07000 102	61	1.60	1.60	2.50	1.30	2.60	1.80	1.60	2.50	4.80	3.90	2.70	2.60	2.474	1.015	2.30	1.46
ROMANIA STINA DE VALE R08000 101	61	1.30	1.30	1.30	1.10	1.30	1.90	1.90	1.50	7.20	4.30			2.309	1.955	1.87	1.84
ROMANIA STINA DE VALE R08000 102	61	1.50	1.50	1.70	0.90	1.90	2.30	2.20	1.80	5.60	3.90	2.20	1.40	2.241	1.288	1.59	1.61
ROMANIA PARING R09000 101	61				1.30												
ROMANIA PARING R09000 102	61	1.60	1.60	2.50	2.20	1.60	2.60	1.90	1.90			2.90	2.80	2.199	0.466	2.15	1.23

WORLD METEOROLOGICAL ORGANIZATION
PRECIPITATION NETWORK DATA
65322 - SULFATE - REPORTED AS SULFUR
83 - PRECIP CONDUCTOMETRIC TITRATION
UNITS - 62 - MG/L-MILLIGRAMS/LITER

														YEARLY			
														ARITHMETIC		GEOMETRIC	
	YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	MEAN	STDEV	MEAN	STDEV
GERMAN DEM REP NEUGLOBSOW 607000 101	81	1.39	1.84	1.27	3.24		2.04	1.72	1.96	1.60	2.01	3.20	1.40	1.969	0.670	1.88	1.36
INDONESIA JAKARTA 166000 102	81	0.25	2.50	2.70	4.20	1.00	4.20	3.50	2.40	2.50	0.60	1.20	0.20	2.104	1.441	1.45	2.87
SWITZERLAND JUNGFRAUJOCH 524000 101	81					0.51	0.81	0.34	0.65	0.34	0.21	0.24	0.27	0.421	0.215	0.37	1.62
SWITZERLAND PAYERNE 527000 101	81					0.55	1.55	0.65	1.00		0.60	1.60	0.80	1.021	0.400	0.95	1.46
UNITED KINGDOM DUMFRIES SCOTLAND UK2000 101	81	0.20	0.80	0.50	1.90	1.60	1.40	1.00	1.50	1.00	0.50	0.80	1.10	1.074	0.441	0.99	1.53

WORLD METEOROLOGICAL ORGANIZATION
PRECIPITATION NETWORK DATA
65322 - SULFATE - REPORTED AS SULFUR
84 - PRECIP NEPHELOMETRIC TURBIDIMETRIC
UNITS - 6_4 - MG/L-MILLIGRAMS/LITER

	YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	YEARLY ARITHMETIC MEAN	YEARLY ARITHMETIC STDEV	YEARLY GEOMETRIC MEAN	YEARLY GEOMETRIC STDEV
MALAYSIA																	
CAMERON HIGHLANDS																	
MY2000 101	81	LD	LD	LD	LD	LD	LD	LD	LD	LD	LD	LD	LD				

WORLD METEOROLOGICAL ORGANIZATION
PRECIPITATION NETWORK DATA
653$_{22}$ - SULFATE - REPORTED AS SULFUR
86 - PRECIP SPECTROMETRY

UNITS - 6$_2$ - MG/L-MILLIGRAMS/LITER

														YEARLY			
														ARITHMETIC		GEOMETRIC	
	YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	MEAN	STDEV	MEAN	STDEV
NETHERLANDS WITTEVEEN NL8000 101	61	1.30	1.40	1.10	2.90	2.20	1.50	2.10	1.80	1.40	1.20	1.80	1.30	1.636	0.550	1.55	1.39

WORLD METEOROLOGICAL ORGANIZATION
PRECIPITATION NETWORK DATA
65322 - SULFATE - REPORTED AS SULFUR
87 - PRECIP ISOTOPIC DILUTION (IVA)
UNITS - 62 - MG/L-MILLIGRAMS/LITER

	YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	YEARLY ARITHMETIC MEAN	YEARLY ARITHMETIC STDEV	YEARLY GEOMETRIC MEAN	YEARLY GEOMETRIC STDEV
FED REP GERMANY DEUSELBACH GE3000 101	81	0.68	1.11	0.83													
FED REP GERMANY LANGENBRUGGE GE6000 101	81	1.36	3.63	1.53													
FED REP GERMANY SCHAUINSLAND GE9000 101	81	0.44	0.71	0.58													
HUNGARY KECSKEMET HU7000 101	81	5.96	5.48	1.92	2.47	4.10	1.70	1.50	2.45	2.30	3.00	2.73	1.38	2.915	1.504	2.61	1.60

WORLD METEOROLOGICAL ORGANIZATION
PRECIPITATION NETWORK DATA
65322 - 2SULFATE
89 - PRECIP ION CHROMATOGRAPHY

UNITS - 62 - MG/L-MILLIGRAMS/LITER

														YEARLY			
														ARITHMETIC		GEOMETRIC	
	YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	MEAN	STDEV	MEAN	STDEV
FED REP GERMANY BROTJACKLRIEGEL GE2000 101	81				LD	LD	LD	LD	LD	LD	LD					1.20	1.44
FED REP GERMANY DEUSELBACH GE3000 101	81				LD	LD	LD	LD	LD	LD	LD					1.25	1.47
FED REP GERMANY LANGENBRUGGE GE6000 101	81					LD	LD	LD	LD	LD	LD						
FED REP GERMANY SCHAUINSLAND GE9000 101	81				LD	LD	LD	LD	LD	LD	LD					0.79	1.80

WORLD METEOROLOGICAL ORGANIZATION
PRECIPITATION NETWORK DATA
65330 - ACIDITY
81 - PRECIP ALKALINE TITRATION

UNITS - 67 - UEQ-(MICRO-EQUIV/L)

														YEARLY ARITHMETIC		GEOMETRIC	
	YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	MEAN	STDEV	MEAN	STDEV
CANADA EDSON CA3000 101	81			LD		LD		LD									
CANADA KELOWNA CA5050 101	81	12		10		LD					LD	LD	10				
CANADA MANIWAKI CA5100 101	81	96	30	66	42	60	62	112	42	66	70	58	50	64.5	23.3	60.68	1.44
CANADA MOULD BAY CA5400 101	81			LD		10							16				
CANADA MOUNT FOREST CA6000 101	81		22	10		48	22	58	140	50	28	24	26	42.7	37.3	33.24	2.05
CANADA PICKLE LAKE CA6050 101	81	18	14		10		LD		42	6	12	LD	LD				
CANADA SABLE ISLAND CA7500 101	81	40	LD		20				LD		18						
DENMARK TANGE DA8000 101	81			50	19	LD	31		104	58	34	40	51	48.3	25.7	43.28	1.65
IRELAND VALENTIA OBSERVAT EI8000 101	81	10	18			14				4			4				
FAEROE ISLANDS EJDE LORANSTATIO FO3000 101	81	23	99	23	29	34	18	12	21	34	14	14	32	29.4	23.2	24.63	1.76
FRANCE ABBEVILLE FR1000 101	81	44	4	15	10		78	40			36	27	33	31.8	22.1	24.00	2.46
FRANCE CARPENTRAS FR3000 101	81	24	2	2		5	1	19		14				9.5	9.3	5.36	3.52
FRANCE CHATEAUCHINON FR4000 101	81	10	24	19	16	4	19			2	7		4	11.6	6.0	8.78	2.38

WORLD METEOROLOGICAL ORGANIZATION
PRECIPITATION NETWORK DATA
65330 - ACIDITY
81 - PRECIP ALKALINE TITRATION

UNITS - 67 - UEQ-(MICRO-EQUIV/L)

	YEAR	JAN.	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	YEARLY ARITHMETIC MEAN	STDEV	GEOMETRIC MEAN	STDEV
FRANCE GOURDON FR6000 101	81							2	13				4				
FRANCE PHALSBOURG FR7000 101	81	41	52	5		10		39					46				
FRANCE ROSTRENEN FR9000 101	81		1		6	25				1			7				
FED REP GERMANY BROTJACKLRIEGEL GE2000 101	81				70	68	70	70	32		20						
FED REP GERMANY DEUSELBACH GE3000 101	81	60	84	62	86	77	96	72	112	52	52			75.2	19.6	73.05	1.29
FED REP GERMANY LANGENBRUGGE GE6000 101	81	62	186	132		100	100	120	72	72	72			104.0	37.6	98.85	1.38
FED REP GERMANY SCHAUINSLAND GE9000 101	81	22	42	26	110	20	50	48	32	26	32			40.7	26.4	35.71	1.65
GREENLAND GODHAVN GL4000 101	81	41	95	LD	LD	LD	12	12	12	LD	LD	12					
HUNGARY KECSKEMET HU7000 101	81												16				
INDONESIA JAKARTA ID6000 102	81	2	2	1	2	LD			1	1	LD	1	LD	0.9	0.6	0.75	2.26
ITALY MONTE CIMONE IT4000 101	81				80		16	48	70	144	114		90	80.2	41.9	67.45	2.06
ITALY S.MARIA DI LEUCA IT7000 101	81	22	55	108	16	48		12		32	18	46	43	40.0	26.2	32.63	1.95
ITALY TRAPANI/BIRGI IT8000 101	81				772							28	40				

WORLD METEOROLOGICAL ORGANIZATION
PRECIPITATION NETWORK DATA
65330 - ACIDITY
81 - PRECIP ALKALINE TITRATION

UNITS - 67 - UEQ-(PICRO-EQUIV/L)

	YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	YEARLY ARITHMETIC MEAN	YEARLY ARITHMETIC STDEV	YEARLY GEOMETRIC MEAN	YEARLY GEOMETRIC STDEV
ITALY VERONA IT8500 101	81	40	LD	64	41	38	44	104	18	94	70		45	55.7	26.9	49.98	1.66
ITALY VITERBO IT9000 101	81	14		16	1	2	39	10		12	26			15.0	12.5	9.26	3.49
MALAYSIA CAMERON HIGHLANDS MY2000 101	81	40		16	25		20	9	22		12	12		19.5	9.9	17.58	1.61
NORWAY AS NO1000 101	81							49									
NORWAY KISE NO5000 101	81							59	27	31							
POLAND JELENIA GORA PL5000 101	81	150			98	70	138	68	65	105	95	100	150	105.8	30.5	101.96	1.33
POLAND SUWALKI PL8000 101	81	65	22	69	8	8	17	35	34	32	42	30	33	32.9	19.1	27.28	1.99
ROMANIA SEMENIC RO1000 101	81			25	275												
ROMANIA SEMENIC RO1000 102	81				125		100	75	150	90			50				
ROMANIA FUNDATA RO2000 102	81		25	250	400	50	150			25			50	135.7	142.7	81.28	3.04
ROMANIA TURIA RO6000 101	81		250	100	75		150		40		550	20		169.2	184.6	103.09	3.03
ROMANIA TURIA RO6000 102	81		275	150	330		150		10								
ROMANIA RARAU RO7000 102	81	LD		100	350	LD		10	70	100		LD					

WORLD METEOROLOGICAL ORGANIZATION
PRECIPITATION NETWORK DATA
65330 - ACIDITY
81 - PRECIP ALKALINE TITRATION

UNITS - 67 - UEQ-(MICRO-EQUIV/L)

	YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	YEARLY ARITHMETIC MEAN	 STDEV	 GEOMETRIC MEAN	 STDEV
ROMANIA STINA DE VALE R08000 101	81	125	150		50	200	225	100		470	50			171.2	136.2	132.20	2.13
ROMANIA STINA DE VALE R08000 102	81	LD			125	LD	250	50		20	20	160					
ROMANIA PARING R09000 102	81	LD	25	25	250	150	250	175	100			10	40	113.6	96.3	76.12	3.23
SWEDEN BREDKALEN SW1000 101	81	6		10	11	10	2	30			16		10	12.1	6.1	5.79	2.14
SWEDEN VELEN SW9000 101	81	29	67	65	56	76	37	55	21	46	55	26	79	51.0	19.4	47.10	1.54
UNITED KINGDOM DUMFRIES SCOTLAND UK2000 101	81	20	20	32	46	91	21	50	4	40	12	17	69	35.3	25.5	26.71	2.34
USSR KURGAN UR5500 101	81						15	7									
USSR SYKTIVKAR UR7000 101	81		6														
USSR TURUKHANSK UR8000 101	81			5		3											

WORLD METEOROLOGICAL ORGANIZATION
PRECIPITATION NETWORK DATA
65331 - ALKALINITY
81 - PRECIP ACID TITRATION

UNITS - 67 - UEQ-(MICRO-EQUIV/L)

	YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	YEARLY ARITHMETIC MEAN	 STDEV	 GEOMETRIC MEAN	 STDEV
CANADA EDSON CA3000 101	81		56	LD	116	LD	22	LD	34	20	86	96	86	64.5	36.5	53.68	1.99
CANADA HAY RIVER CA5030 101	81							12	82	56		30	26				
CANADA KELOWNA CA5050 101	81		6		30	LD		12	56	6	LD	LD					
CANADA MOULD BAY CA5400 101	81	26		LD					54		38						
CANADA MOUNT FOREST CA6000 101	81				62												
CANADA PICKLE LAKE CA6050 101	81					20	LD	36				LD	LD				
CANADA SABLE ISLAND CA7500 101	81		LD						LD								
CANADA WYNYARD CA9000 101	81		176	618	208	172	72	42	18	114				177.5	190.4	111.64	2.94
DENMARK TANGE DA8000 101	81							LD									
IRELAND VALENTIA OBSERVAT EI8000 101	81			28	5		14	23	24		18	22		19.1	7.6	17.10	1.79
FRANCE ABBEVILLE FR1000 101	81					36			166	136							
FRANCE CARPENTRAS FR3000 101	81				3						10		9				
FRANCE CHATEAUCHINON FR4000 101	81							19	5			1					

WORLD METEOROLOGICAL ORGANIZATION
PRECIPITATION NETWORK DATA
65331 - ALKALINITY
81 - PRECIP ACID TITRATION

UNITS - 67 - UEQ-(PICRO-EQUIV/L)

														YEARLY			
														ARITHMETIC		GEOMETRIC	
	YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	MEAN	STDEV	MEAN	STDEV
FRANCE GOURDON FR6000 101	81	11	2	2	20	9	6			1	2	16		7.6	6.8	4.66	2.95
FRANCE PHALSBOURG FR7000 101	81				1		12		60	72	50	43					
FRANCE ROSTRENEN FR9000 101	81	12		2			7	48	79		6	33		26.7	28.4	14.36	3.69
GERMAN DEM REP NEUGLOBSOW GC7000 101	81	88	106	94			124	76	98	103	130	130	77	102.5	20.1	100.62	1.21
HUNGARY KECSKEMET HU7000 101	81			23	206	10	3	424	398	56	19	84		136.1	168.0	50.57	5.49
INDONESIA JAKARTA ID6000 102	81						1	1									
ITALY MONTE CIMONE IT4000 101	81	210	186	10		18											
ITALY TRAPANI/BIRGI IT8000 101	81	7	16	370		358	526				90						
ITALY VERONA IT8500 101	81		LD														
ITALY VITERBO IT9000 101	81		6						6				66				
JAPAN RYORI JA9000 101	81												1				
MALAYSIA CAMERON HIGHLANDS MY2000 101	81		10			120				6			12				
POLAND JELENIA GORA PL5000 101	81	LD			LD	LD	LD	LD	LD	LD	LD	LD	LD				

WORLD METEOROLOGICAL ORGANIZATION
PRECIPITATION NETWORK DATA
65331 - ALKALINITY
81 - PRECIP ACID TITRATION

UNITS - 67 - UEQ-(MICRO-EQUIV/L)

														YEARLY ARITHMETIC		GEOMETRIC	
	YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	MEAN	STDEV	MEAN	STDEV
POLAND SUWALKI PL8000 101	81	LD	LD	LD	LD	LD	LD	LD	LD	LD	LD	LD	LD				
PORTUGAL BRAGANCA P02000 101	81				65	70				20							
ROMANIA SEMENIC R01000 102	81	125	125			50					190	440					
ROMANIA FUNDATA R02000 102	81	365						50	75		95	70					
ROMANIA TURIA R06000 101	81	150				75		10		50			50				
ROMANIA TURIA R06000 102	81	75				75		100		70	160	90	60	90.0	33.5	85.72	1.37
ROMANIA RARAU R07000 102	81	LD	400			LD	100				20	LD	50				
ROMANIA STINA DE VALE R08000 101	81			75					100								
ROMANIA STINA DE VALE R08000 102	81	LD	200	25		LD			20				40				
ROMANIA PARING R09000 101	81				100												
ROMANIA PARING R09000 102	81	LD															
SWEDEN BREDKALEN SW1000 101	81		4						10	40		3					
USSR IRKUTSK UR4000 101	81		95	26			80	16	72	56	95			62.8	31.7	53.23	2.00

WORLD METEOROLOGICAL ORGANIZATION
PRECIPITATION NETWORK DATA
65331 - ALKALINITY
81 - PRECIP ACID TITRATION

UNITS - 67 - UEQ-(MICRO-EQUIV/L)

	YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	YEARLY ARITHMETIC MEAN	YEARLY ARITHMETIC STDEV	YEARLY GEOMETRIC MEAN	YEARLY GEOMETRIC STDEV
USSR KURGAN UR5500 101	81			2	25	18				4		76	58				
USSR NOVOPJATIGORSK UR6000 101	81	25	172	54	60	37	41	73	63	81	67	192	97	80.1	51.5	66.02	1.80
USSR SYKTIVKAR UR7000 101	81	1			31	62	16	32	32	9	11	16	6	23.5	23.3	14.44	3.33
USSR TURUKHANSK UR8000 101	81	26	65		43		8	241	92	40	51	24	24	61.3	67.5	41.49	2.49

B. WEEKLY PRECIPITATION CHEMISTRY DATA TABLE INDEX

Parameters

Volume IIB-1

General Parameters

pH . . . . IIB- 5
Conductivity . . . . IIB- 7

Metals

Sodium . . . . IIB- 9
Potassium IIB-11
Magnesium IIB-13
Calcium IIB-15

Non-Metals Ions

Chloride IIB-17
Ammonium IIB-19
Nitrate IIB-21
Sulfate IIB-23
Phosphate Tribasic IIB-25

WORLD METEOROLOGICAL ORGANIZATION

PRECIPITATION NETWORK DATA

65301 - VOLUME
71 - PRECIP NATIONAL GAUGE
UNITS - 29 MM-MILLIMETER

WEEKLY DATA FOR YEAR 1981

SAMPLE STARTED DURING WEEK OF	CALIFORNIA INYO CO 053460001	HAWAII MAUNA LOA 120080002	ILLINOIS SALEM 146920001	MISSISSIPPI LAUDERDALE CO 251460001
JAN 1			1	19
JAN 8				6
JAN 15			8	6
JAN 22	17		30	44
JAN 29		2	8	52
FEB 5			20	27
FEB 12		0	17	1
FEB 19	17	3	4	24
FEB 26	1	3	21	54
MAR 4	3		2	2
MAR 11	4		1	50
MAR 18	1	1	1	104
MAR 25		9		86
APR 1			21	
APR 8	16		22	1
APR 15			14	9
APR 22		1	2	1
APR 29		1	44	9
MAY 6			55	36
MAY 13	22	2	44	48
MAY 20			13	1
MAY 27			38	25
JUN 3			8	19
JUN 10			22	6
JUN 17				15
JUN 24			41	31
JUL 1			7	8
JUL 8			73	
JUL 15			39	25
JUL 22		28	2	17
JUL 29		28	24	26
AUG 5	1	5	18	2
AUG 12		2		
AUG 19			56	38
AUG 26			5	
SEP 2	0	19	28	4
SEP 9	1	18	3	9
SEP 16		3	2	
SEP 23			13	
SEP 30				24
OCT 7	2		47	3
OCT 14			28	55
OCT 21		1	7	
OCT 28		4	23	17
NOV 4	27		4	
NOV 11		6	4	6
NOV 18		19	22	47
NOV 25		6		
DEC 2				72
DEC 9			9	7
DEC 16		130	30	27
DEC 23	26		34	54
DEC 30				

WORLD METEOROLOGICAL ORGANIZATION

PRECIPITATION NETWORK DATA

65301 - VOLUME
71 - PRECIP NATIONAL GAUGE
UNITS - 29 MM-MILLIMETER

WEEKLY DATA FOR YEAR 1981

SAMPLE STARTED DURING WEEK OF	SOUTH DAKOTA BEADLE CO 430060001	TEXAS VICTORIA CO 455350001		
JAN 1		3		
JAN 8		46		
JAN 15	0	6		
JAN 22	4	5		
JAN 29	2	14		
FEB 5				
FEB 12		0		
FEB 19	1	17		
FEB 26		2		
MAR 4		20		
MAR 11	4	2		
MAR 18	53	1		
MAR 25				
APR 1				
APR 8	1	14		
APR 15		22		
APR 22	2	86		
APR 29		17		
MAY 6	14	5		
MAY 13		52		
MAY 20	20	54		
MAY 27		70		
JUN 3	14	137		
JUN 10				
JUN 17	6			
JUN 24	16			
JUL 1	2			
JUL 8				
JUL 15	38			
JUL 22	95			
JUL 29				
AUG 5	9			
AUG 12	44			
AUG 19				
AUG 26				
SEP 2	6			
SEP 9				
SEP 16				
SEP 23	18			
SEP 30	12			
OCT 7	2			
OCT 14	1			
OCT 21				
OCT 28				
NOV 4				
NOV 11	8			
NOV 18	23			
NOV 25				
DEC 2	7			
DEC 9	0			
DEC 16				
DEC 23	6			
DEC 30				

WORLD METEOROLOGICAL ORGANIZATION

PRECIPITATION NETWORK DATA

65301 - VOLUME
81 - PRECIP VOLUMETRIC
UNITS - 29 MM-MILLIMETER

WEEKLY DATA FOR YEAR 1981

SAMPLE STARTED DURING WEEK OF	CALIFORNIA INYO CO 053460001	HAWAII MAUNA LOA 120080002	ILLINOIS SALEM 146920001	MISSISSIPPI LAUDERDALE CO 251460001
JAN 1			0	16
JAN 8				7
JAN 15	0		5	5
JAN 22			16	
JAN 29	0	1	13	46
FEB 5	0		18	24
FEB 12		0	10	1
FEB 19	17		5	20
FEB 26	1	2	18	48
MAR 4			2	1
MAR 11	4		0	45
MAR 18	3	0	4	90
MAR 25		8		76
APR 1			18	0
APR 8	16		21	0
APR 15				7
APR 22		1		1
APR 29		1	49	9
MAY 6			67	33
MAY 13		1		39
MAY 20		0	17	0
MAY 27	0		40	22
JUN 3			7	16
JUN 10			22	5
JUN 17		0		12
JUN 24			48	20
JUL 1			7	7
JUL 8			53	0
JUL 15			37	22
JUL 22		28	2	17
JUL 29		26	24	25
AUG 5	1	5	19	2
AUG 12		2		
AUG 19			60	1
AUG 26		0	7	
SEP 2	0	18	28	0
SEP 9	0	17	4	6
SEP 16		3	2	
SEP 23			14	
SEP 30			0	
OCT 7	2		47	3
OCT 14			27	52
OCT 21	0	0	7	
OCT 28		4	24	16
NOV 4	28		4	
NOV 11	0	5	4	5
NOV 18		19	22	42
NOV 25		5	0	59
DEC 2			0	68
DEC 9			9	6
DEC 16		129	30	27
DEC 23	27	0	38	45
DEC 30				

WORLD METEOROLOGICAL ORGANIZATION

PRECIPITATION NETWORK DATA

65301 - VOLUME
81 - PRECIP VOLUMETRIC
UNITS - 29 MM-MILLIMETER

WEEKLY DATA FOR YEAR 1981

SAMPLE STARTED DURING WEEK OF	SOUTH DAKOTA BEADLE CO 430060001	TEXAS VICTORIA CO 455350001		
JAN 1	0	2		
JAN 8		43		
JAN 15	0	6		
JAN 22	1	4		
JAN 29	0	13		
FEB 5				
FEB 12		0		
FEB 19		17		
FEB 26		1		
MAR 4				
MAR 11	4			
MAR 18	51			
MAR 25				
APR 1				
APR 8	1	13		
APR 15				
APR 22	1	87		
APR 29				
MAY 6	13	4		
MAY 13		51		
MAY 20	20	53		
MAY 27		71		
JUN 3				
JUN 10				
JUN 17	5			
JUN 24	17			
JUL 1	2			
JUL 8				
JUL 15				
JUL 22	96			
JUL 29				
AUG 5				
AUG 12	43			
AUG 19				
AUG 26				
SEP 2	6			
SEP 9				
SEP 16				
SEP 23	20			
SEP 30	12			
OCT 7	1			
OCT 14	1			
OCT 21				
OCT 28				
NOV 4				
NOV 11	5			
NOV 18				
NOV 25	0			
DEC 2	4			
DEC 9	0			
DEC 16	0			
DEC 23	1			
DEC 30				

WORLD METEOROLOGICAL ORGANIZATION

PRECIPITATION NETWORK DATA

65302 - PH
81 - PRECIP GLASS ELECTRODE
UNITS - 61 PH UNITS

WEEKLY DATA FOR YEAR 1981

SAMPLE STARTED DURING WEEK OF	CALIFORNIA INYO CO 053460001	HAWAII MAUNA LOA 120080002	ILLINOIS SALEM 146920001	MISSISSIPPI LAUDERDALE CO 251460001
JAN 1			5.10	4.57
JAN 8				4.73
JAN 15	6.85		4.36	4.19
JAN 22	6.38		4.43	4.61
JAN 29		6.43	4.39	4.81
FEB 5	6.76		4.46	4.86
FEB 12			4.14	5.05
FEB 19	5.39		4.44	4.40
FEB 26	5.71	5.50	4.19	4.91
MAR 4	7.08		4.09	4.48
MAR 11	7.12			4.96
MAR 18	6.02		4.93	4.98
MAR 25				4.86
APR 1			4.53	5.99
APR 8	6.82			
APR 15				4.65
APR 22				4.67
APR 29		6.06		4.36
MAY 6				4.89
MAY 13	5.94	6.96		5.15
MAY 20				5.78
MAY 27	6.19			4.58
JUN 3				4.73
JUN 10				4.20
JUN 17		6.67		4.59
JUN 24				6.44
JUL 1				4.06
JUL 8				6.64
JUL 15				4.45
JUL 22		5.16		5.14
JUL 29		5.17		
AUG 5	6.36	5.87		5.30
AUG 12		5.94		
AUG 19				4.77
AUG 26		7.25		
SEP 2		5.09		7.12
SEP 9	7.12	5.99		
SEP 16		6.14		
SEP 23				
SEP 30				4.43
OCT 7	5.45			4.49
OCT 14				5.07
OCT 21	6.87	7.14		
OCT 28		6.36	4.47	
NOV 4	5.69		4.22	
NOV 11		6.07	4.45	4.85
NOV 18		5.74	4.33	4.65
NOV 25		5.90		
DEC 2				4.58
DEC 9			4.26	4.33
DEC 16		5.57	4.39	4.61
DEC 23	5.39		4.41	5.03
DEC 30				

WORLD METEOROLOGICAL ORGANIZATION

PRECIPITATION NETWORK DATA

65302 - PH
81 - PRECIP GLASS ELECTRODE
UNITS - 61 PH UNITS

WEEKLY DATA FOR YEAR 1981

SAMPLE STARTED DURING WEEK OF	SOUTH DAKOTA BEADLE CO 430060001	TEXAS VICTORIA CO 455350001		
JAN 1		4.25		
JAN 8		4.93		
JAN 15	6.48	5.97		
JAN 22	7.57	3.92		
JAN 29		4.59		
FEB 5				
FEB 12				
FEB 19	6.76	4.43		
FEB 26		7.16		
MAR 4		4.13		
MAR 11	6.82			
MAR 18	6.38			
MAR 25				
APR 1				
APR 8	6.98	5.13		
APR 15		4.95		
APR 22	7.05	5.18		
APR 29		4.80		
MAY 6	6.47	6.82		
MAY 13		5.11		
MAY 20	6.56	4.94		
MAY 27		5.77		
JUN 3	6.48	5.00		
JUN 10				
JUN 17	6.35			
JUN 24	5.13			
JUL 1	6.40			
JUL 8				
JUL 15	5.80			
JUL 22	5.46			
JUL 29				
AUG 5	5.94			
AUG 12	6.08			
AUG 19				
AUG 26				
SEP 2	6.55			
SEP 9				
SEP 16				
SEP 23	5.37			
SEP 30	6.81			
OCT 7	6.67			
OCT 14	6.78			
OCT 21				
OCT 28				
NOV 4				
NOV 11	6.46			
NOV 18	4.83			
NOV 25	6.54			
DEC 2	6.06			
DEC 9				
DEC 16				
DEC 23	6.24			
DEC 30				

WORLD METEOROLOGICAL ORGANIZATION

PRECIPITATION NETWORK DATA

65303 - CONDUCTIVITY
81 - PRECIP CONDUCTIVITY CELL
UNITS - 69 US/CM-MICROSIEMENS/CM

WEEKLY DATA FOR YEAR 1981

SAMPLE STARTED DURING WEEK OF	CALIFORNIA INYO CO 053460001	HAWAII MAUNA LOA 120080002	ILLINOIS SALEM 146920001	MISSISSIPPI LAUDERDALE CO 251460001
JAN 1			30.4	19.9
JAN 8				13.2
JAN 15			20.5	38.0
JAN 22	9.6		19.9	17.6
JAN 29		7.4	23.4	10.9
FEB 5	16.4		17.8	13.8
FEB 12			37.4	25.7
FEB 19	8.5		33.9	26.9
FEB 26	15.8	15.9	32.2	9.4
MAR 4	48.6		29.8	37.4
MAR 11	32.2			12.6
MAR 18	6.7		25.2	11.3
MAR 25				14.3
APR 1			30.4	74.9
APR 8	13.7			
APR 15				15.1
APR 22				27.5
APR 29		7.0		27.5
MAY 6				15.0
MAY 13	4.9	28.2		6.2
MAY 20				95.5
MAY 27				16.3
JUN 3				12.1
JUN 10				47.6
JUN 17				22.6
JUN 24				16.0
JUL 1				50.4
JUL 8				
JUL 15				26.8
JUL 22		5.3		15.3
JUL 29		2.4		
AUG 5	61.6	7.2		28.6
AUG 12		24.8		
AUG 19				9.1
AUG 26		168.0		
SEP 2		9.2		97.9
SEP 9	95.0	1.7		
SEP 16		6.2		
SEP 23				
SEP 30				24.1
OCT 7	8.4			41.4
OCT 14				5.4
OCT 21	40.5	28.4		
OCT 28		4.4	22.5	
NOV 4	3.6		36.4	
NOV 11		8.2	41.5	23.0
NOV 18		2.6	27.0	16.7
NOV 25		3.5		
DEC 2				12.9
DEC 9			33.2	31.1
DEC 16		1.5	19.7	14.3
DEC 23	3.8		18.8	7.3
DEC 30				

WORLD METEOROLOGICAL ORGANIZATION

PRECIPITATION NETWORK DATA

65303 - CONDUCTIVITY
81 - PRECIP CONDUCTIVITY CELL
UNITS - 69 US/CM-MICROSIEMENS/CM

WEEKLY DATA FOR YEAR 1981

SAMPLE STARTED DURING WEEK OF	SOUTH DAKOTA BEADLE CO 430060001	TEXAS VICTORIA CO 455350001		
JAN 1		39.8		
JAN 8		8.0		
JAN 15		18.7		
JAN 22	50.9	79.6		
JAN 29		18.7		
FEB 5				
FEB 12				
FEB 19	71.4	25.2		
FEB 26		94.8		
MAR 4		38.6		
MAR 11	17.6			
MAR 18	13.8			
MAR 25				
APR 1				
APR 8	70.2	29.8		
APR 15		21.6		
APR 22	46.8	10.5		
APR 29		21.1		
MAY 6	14.3	50.3		
MAY 13		7.5		
MAY 20	12.4	14.7		
MAY 27		5.1		
JUN 3	17.4	12.8		
JUN 10				
JUN 17	19.8			
JUN 24	16.6			
JUL 1	43.6			
JUL 8				
JUL 15				
JUL 22	12.5			
JUL 29				
AUG 5	5.1			
AUG 12	6.3			
AUG 19				
AUG 26				
SEP 2	33.9			
SEP 9				
SEP 16				
SEP 23				
SEP 30	9.9			
OCT 7	20.2			
OCT 14	38.8			
OCT 21				
OCT 28				
NOV 4				
NOV 11	12.1			
NOV 18	13.1			
NOV 25	77.1			
DEC 2	8.3			
DEC 9				
DEC 16				
DEC 23	14.7			
DEC 30				

WORLD METEOROLOGICAL ORGANIZATION

PRECIPITATION NETWORK DATA

65311 - SODIUM
82 - PRECIP COLORMETRIC
UNITS - 75 MICROMOLES/LITER

WEEKLY DATA FOR YEAR 1981

SAMPLE STARTED DURING WEEK OF	CALIFORNIA INYO CO 053460001	HAWAII MAUNA LOA 120080002	ILLINOIS SALEM 146920001	MISSISSIPPI LAUDERDALE CO 251460001
JAN 1			2.690	.950
JAN 8				5.860
JAN 15			1.130	1.040
JAN 22	3.300		2.130	7.000
JAN 29		6.520	2.690	3.000
FEB 5	.690		1.780	3.730
FEB 12			2.130	1.820
FEB 19	2.470		6.130	3.600
FEB 26	6.950	9.910	.520	3.950
MAR 4	6.910		.780	2.260
MAR 11	8.700			4.300
MAR 18	2.560		7.000	
MAR 25				9.080
APR 1			4.560	
APR 8	3.040			
APR 15				7.170
APR 22				2.390
APR 29		5.650		.780
MAY 6				9.780
MAY 13	2.560			3.130
MAY 20				.910
MAY 27				7.820
JUN 3				5.560
JUN 10				2.000
JUN 17				5.210
JUN 24				6.690
JUL 1				4.300
JUL 8				
JUL 15				4.560
JUL 22		3.820		8.210
JUL 29		2.170		
AUG 5	6.520	3.780		.860
AUG 12		5.170		
AUG 19				4.600
AUG 26				
SEP 2		4.860		5.690
SEP 9	6.300	2.170		
SEP 16		5.170		
SEP 23				
SEP 30				8.910
OCT 7	3.730			2.170
OCT 14				2.650
OCT 21	8.600	7.080		
OCT 28		.130	4.430	
NOV 4	3.600		7.000	
NOV 11		6.950	9.300	5.910
NOV 18		1.820	4.560	3.730
NOV 25		7.300		
DEC 2				3.260
DEC 9			2.600	6.950
DEC 16		.430	2.690	8.820
DEC 23	4.260		1.480	5.570
DEC 30				

WORLD METEOROLOGICAL ORGANIZATION

PRECIPITATION NETWORK DATA

65311 - SODIUM
82 - PRECIP COLORMETRIC
UNITS - 75 MICROMOLES/LITER

WEEKLY DATA FOR YEAR 1981

SAMPLE STARTED DURING WEEK OF	SOUTH DAKOTA BEADLE CO 430060001	TEXAS VICTORIA CO 455350001		
JAN 1		.860		
JAN 8		1.130		
JAN 15		8.690		
JAN 22	9.130	7.390		
JAN 29		.390		
FEB 5				
FEB 12				
FEB 19	9.430	5.170		
FEB 26		5.700		
MAR 4		5.130		
MAR 11	.690			
MAR 18	3.040			
MAR 25				
APR 1				
APR 8	7.730	9.560		
APR 15		5.650		
APR 22	6.340	4.560		
APR 29		1.730		
MAY 6	1.650	6.950		
MAY 13		5.730		
MAY 20	3.130	5.170		
MAY 27		1.260		
JUN 3	6.470	.130		
JUN 10				
JUN 17	8.340			
JUN 24	.600			
JUL 1	1.390			
JUL 8				
JUL 15	1.650			
JUL 22	2.340			
JUL 29				
AUG 5	4.170			
AUG 12	1.600			
AUG 19				
AUG 26				
SEP 2	9.860			
SEP 9				
SEP 16				
SEP 23	2.040			
SEP 30	4.130			
OCT 7	8.690			
OCT 14	1.300			
OCT 21				
OCT 28				
NOV 4				
NOV 11	1.560			
NOV 18	1.910			
NOV 25				
DEC 2	8.520			
DEC 9				
DEC 16				
DEC 23	5.570			
DEC 30				

WORLD METEOROLOGICAL ORGANIZATION

PRECIPITATION NETWORK DATA

65312 - POTASSIUM
82 - PRECIP COLORMETRIC
UNITS - 75 MICROMOLES/LITER

WEEKLY DATA FOR YEAR 1981

SAMPLE STARTED DURING WEEK OF	CALIFORNIA INYO CO 053460001	HAWAII MAUNA LOA 120080002	ILLINOIS SALEM 146920001	MISSISSIPPI LAUDERDALE CO 251460001
JAN 1			.3800	.7600
JAN 8				.9400
JAN 15			.2000	.2300
JAN 22	.7600		.4800	.8400
JAN 29		.9700	.0200	.0700
FEB 5	.2300		.0500	.5600
FEB 12			.6100	.3500
FEB 19	.0700			.7900
FEB 26	.5300	.7100	.1500	.4300
MAR 4	.6400		.5100	.6600
MAR 11	.6900			.5600
MAR 18	.0700		.0500	.7400
MAR 25				.1200
APR 1			.6900	
APR 8	.0200			
APR 15				.8700
APR 22				.1500
APR 29		.8900		.0500
MAY 6				.6900
MAY 13	.3300			.3000
MAY 20				.3500
MAY 27				.7100
JUN 3				.4300
JUN 10				.1500
JUN 17				.9200
JUN 24				.1500
JUL 1				.4300
JUL 8				
JUL 15				.2800
JUL 22		.2000		.5100
JUL 29		.0700		
AUG 5	.7900	.4600		.6400
AUG 12		.0500		
AUG 19				.2800
AUG 26				
SEP 2		.4100		.9200
SEP 9	.8400	.1200		
SEP 16		.4100		
SEP 23				
SEP 30				.9400
OCT 7	.5800			.1700
OCT 14				.1700
OCT 21	.2800	.8700		
OCT 28		.0200	.5100	
NOV 4	.2300		.6600	
NOV 11		.2300	.7600	.9700
NOV 18		.1200	.4300	.6100
NOV 25		.4600		
DEC 2				.4100
DEC 9			.8700	.5600
DEC 16		.0700	.2800	.4800
DEC 23	.2600		.2100	.1000
DEC 30				

WORLD METEOROLOGICAL ORGANIZATION

PRECIPITATION NETWORK DATA

65312 - POTASSIUM
82 - PRECIP COLORMETRIC
UNITS - 75 MICROMOLES/LITER

WEEKLY DATA FOR YEAR 1981

SAMPLE STARTED DURING WEEK OF	SOUTH DAKOTA BEADLE CO 430060001	TEXAS VICTORIA CO 455350001		
JAN 1		.9200		
JAN 8		.0500		
JAN 15		.5300		
JAN 22	.3800	.1700		
JAN 29		.5100		
FEB 5				
FEB 12				
FEB 19	.3300	.4800		
FEB 26		.5300		
MAR 4		.3300		
MAR 11	.7400			
MAR 18	.7600			
MAR 25				
APR 1				
APR 8	.7400	.2500		
APR 15		.8700		
APR 22	.5100	.7900		
APR 29		.4600		
MAY 6	.1200	.9700		
MAY 13		.6400		
MAY 20	.4600	.0700		
MAY 27		.4100		
JUN 3	.5100	.0700		
JUN 10				
JUN 17	.7400			
JUN 24	.4300			
JUL 1	.6600			
JUL 8				
JUL 15	.8700			
JUL 22	.6400			
JUL 29				
AUG 5	.3000			
AUG 12	.9400			
AUG 19				
AUG 26				
SEP 2	.3500			
SEP 9				
SEP 16				
SEP 23	.7400			
SEP 30	.5300			
OCT 7	.9700			
OCT 14	.1700			
OCT 21				
OCT 28				
NOV 4				
NOV 11	.8400			
NOV 18	.3800			
NOV 25				
DEC 2	.7600			
DEC 9				
DEC 16				
DEC 23	.8500			
DEC 30				

WORLD METEOROLOGICAL ORGANIZATION

PRECIPITATION NETWORK DATA

65313 - MAGNESIUM
82 - PRECIP ATOMIC ABSORPTION
UNITS - 75 MICROMOLES/LITER

WEEKLY DATA FOR YEAR 1981

SAMPLE STARTED DURING WEEK OF	CALIFORNIA INYO CO 053460001	HAWAII MAUNA LOA 120080002	ILLINOIS SALEM 146920001	MISSISSIPPI LAUDERDALE CO 251460001
JAN 1			7.750	1.620
JAN 8				.870
JAN 15			.870	4.580
JAN 22	1.830		.580	2.160
JAN 29		1.580	.830	.330
FEB 5	3.040		.370	1.700
FEB 12			1.120	4.790
FEB 19	.250		2.370	.870
FEB 26	3.580	2.330	.580	.410
MAR 4	7.540		1.040	4.540
MAR 11	3.080			2.040
MAR 18	1.080		5.120	1.750
MAR 25				1.580
APR 1			4.950	
APR 8	.950			
APR 15				1.330
APR 22				6.120
APR 29		1.410		2.040
MAY 6				1.750
MAY 13	1.410			.540
MAY 20				2.370
MAY 27				1.410
JUN 3				.870
JUN 10				7.500
JUN 17				6.200
JUN 24				8.080
JUL 1				3.450
JUL 8				
JUL 15				2.580
JUL 22		2.410		3.660
JUL 29		.120		
AUG 5	7.000	6.330		.290
AUG 12		5.620		
AUG 19				1.330
AUG 26				
SEP 2		.660		9.790
SEP 9	2.750	2.000		
SEP 16		8.580		
SEP 23				
SEP 30				3.750
OCT 7	5.000			4.120
OCT 14				
OCT 21	9.830	2.830		
OCT 28		4.290	2.120	
NOV 4	2.410		2.750	
NOV 11		4.410	7.040	.160
NOV 18		1.200	1.410	2.330
NOV 25		4.160		
DEC 2				.870
DEC 9			2.750	7.250
DEC 16		.370	.870	2.080
DEC 23	.420		.540	
DEC 30				

WORLD METEOROLOGICAL ORGANIZATION

PRECIPITATION NETWORK DATA

65313 - MAGNESIUM
82 - PRECIP ATOMIC ABSORPTION
UNITS - 75 MICROMOLES/LITER

WEEKLY DATA FOR YEAR 1981

SAMPLE STARTED DURING WEEK OF	SOUTH DAKOTA BEADLE CO 430060001	TEXAS VICTORIA CO 455350001		
JAN 1		5.370		
JAN 8		.250		
JAN 15		5.040		
JAN 22	7.330	3.120		
JAN 29		2.830		
FEB 5				
FEB 12				
FEB 19	6.700	4.830		
FEB 26		9.000		
MAR 4				
MAR 11	2.330			
MAR 18	1.700			
MAR 25				
APR 1				
APR 8	2.660	1.250		
APR 15		3.700		
APR 22		.950		
APR 29		3.500		
MAY 6	3.200	.830		
MAY 13		.910		
MAY 20	4.620	2.160		
MAY 27		1.450		
JUN 3	4.750	4.660		
JUN 10				
JUN 17	6.660			
JUN 24	1.250			
JUL 1	5.620			
JUL 8				
JUL 15	2.410			
JUL 22	1.620			
JUL 29				
AUG 5	4.330			
AUG 12	2.250			
AUG 19				
AUG 26				
SEP 2	9.450			
SEP 9				
SEP 16				
SEP 23	2.410			
SEP 30	5.910			
OCT 7	8.540			
OCT 14	5.000			
OCT 21				
OCT 28				
NOV 4				
NOV 11	2.620			
NOV 18	1.120			
NOV 25				
DEC 2	6.700			
DEC 9				
DEC 16				
DEC 23	9.460			
DEC 30				

WORLD METEOROLOGICAL ORGANIZATION

PRECIPITATION NETWORK DATA

65314 - CALCIUM
82 - PRECIP ATOMIC ABSORPTION
UNITS - 75 MICROMOLES/LITER

WEEKLY DATA FOR YEAR 1981

SAMPLE STARTED DURING WEEK OF	CALIFORNIA INYO CO 053460001	HAWAII MAUNA LOA 120080002	ILLINOIS SALEM 146920001	MISSISSIPPI LAUDERDALE CO 251460001
JAN 1			9.950	1.740
JAN 8				3.740
JAN 15			3.740	7.230
JAN 22	5.210		2.990	1.240
JAN 29		3.990	3.740	.740
FEB 5	7.680		.990	1.490
FEB 12			6.980	7.200
FEB 19	1.240		3.960	2.240
FEB 26	4.710	5.730	1.740	.740
MAR 4	6.350		3.990	2.960
MAR 11	9.370			4.230
MAR 18	5.730		4.460	2.740
MAR 25				4.480
APR 1			8.200	
APR 8	5.210			
APR 15				1.740
APR 22				5.210
APR 29		5.980		6.230
MAY 6				4.980
MAY 13	7.480			.740
MAY 20				6.600
MAY 27				2.740
JUN 3				1.740
JUN 10				8.170
JUN 17				2.460
JUN 24				8.470
JUL 1				4.210
JUL 8				
JUL 15				6.230
JUL 22		1.240		6.230
JUL 29		.990		
AUG 5	1.200	.470		4.460
AUG 12		4.410		
AUG 19				1.740
AUG 26				
SEP 2		.490		5.230
SEP 9	7.800	1.990		
SEP 16		6.730		
SEP 23				
SEP 30				4.980
OCT 7	5.230			7.450
OCT 14				2.240
OCT 21	5.660	7.400		
OCT 28		3.490	3.490	
NOV 4	2.490		4.730	
NOV 11		5.730	4.910	7.200
NOV 18		1.990	3.490	3.490
NOV 25		2.740		
DEC 2				.990
DEC 9			8.720	4.480
DEC 16		.490	3.490	2.740
DEC 23	1.750		2.240	1.750
DEC 30				

WORLD METEOROLOGICAL ORGANIZATION

PRECIPITATION NETWORK DATA

65314 - CALCIUM
82 - PRECIP ATOMIC ABSORPTION
UNITS - 75 MICROMOLES/LITER

WEEKLY DATA FOR YEAR 1981

SAMPLE STARTED DURING WEEK OF	SOUTH DAKOTA BEADLE CO 430060001	TEXAS VICTORIA CO 455350001		
JAN 1		2.960		
JAN 8		.740		
JAN 15		6.980		
JAN 22	1.100	4.460		
JAN 29		2.740		
FEB 5				
FEB 12				
FEB 19	9.850	6.730		
FEB 26		8.300		
MAR 4		3.740		
MAR 11	6.730			
MAR 18	8.220			
MAR 25				
APR 1				
APR 8	4.700	5.210		
APR 15		7.730		
APR 22		1.990		
APR 29		1.470		
MAY 6	4.210	1.390		
MAY 13		1.740		
MAY 20	2.710	2.990		
MAY 27		1.240		
JUN 3	8.450	1.740		
JUN 10				
JUN 17	6.950			
JUN 24	3.490			
JUL 1	.790			
JUL 8				
JUL 15	4.730			
JUL 22	5.980			
JUL 29				
AUG 5	4.480			
AUG 12	3.490			
AUG 19				
AUG 26				
SEP 2	7.630			
SEP 9				
SEP 16				
SEP 23	4.730			
SEP 30	7.730			
OCT 7	9.950			
OCT 14	2.390			
OCT 21				
OCT 28				
NOV 4				
NOV 11	8.220			
NOV 18	1.990			
NOV 25				
DEC 2	.470			
DEC 9				
DEC 16				
DEC 23	8.930			
DEC 30				

WORLD METEOROLOGICAL ORGANIZATION

PRECIPITATION NETWORK DATA

65316 - CHLORIDE
81 - PRECIP COLORMETRIC
UNITS - 75 MICROMOLES/LITER

WEEKLY DATA FOR YEAR 1981

SAMPLE STARTED DURING WEEK OF	CALIFORNIA INYO CO 053460001	HAWAII MAUNA LOA 120080002	ILLINOIS SALEM 146920001	MISSISSIPPI LAUDERDALE CO 251460001
JAN 1			.700	9.850
JAN 8				7.320
JAN 15			3.380	8.020
JAN 22	1.400		6.190	9.430
JAN 29		8.730	5.910	7.320
FEB 5	5.630		6.470	.140
FEB 12			1.540	6.330
FEB 19	4.780		9.010	5.630
FEB 26	9.430	1.970	3.380	5.910
MAR 4	3.660		4.500	4.640
MAR 11	.980			4.500
MAR 18	3.660		1.400	1.260
MAR 25				.700
APR 1			4.500	
APR 8	5.070			
APR 15				9.570
APR 22				6.760
APR 29		6.470		2.390
MAY 6				.980
MAY 13	3.380			2.810
MAY 20				6.900
MAY 27				7.880
JUN 3				4.780
JUN 10				3.660
JUN 17				5.350
JUN 24				1.830
JUL 1				2.670
JUL 8				
JUL 15				3.090
JUL 22		3.090		7.600
JUL 29		.840		
AUG 5	3.380	.700		2.950
AUG 12		4.920		
AUG 19				4.780
AUG 26				
SEP 2		4.780		6.610
SEP 9	8.450	.560		
SEP 16		.980		
SEP 23				
SEP 30				8.160
OCT 7	9.570			4.640
OCT 14				1.120
OCT 21	6.760	9.850		
OCT 28		7.880	3.090	
NOV 4	1.690		4.500	
NOV 11		9.850	8.450	8.590
NOV 18		.560	4.500	6.330
NOV 25		3.660		
DEC 2				3.090
DEC 9			6.190	5.910
DEC 16		.560	3.090	9.010
DEC 23	.560		.560	4.790
DEC 30				

WORLD METEOROLOGICAL ORGANIZATION

PRECIPITATION NETWORK DATA

65316 - CHLORIDE
81 - PRECIP COLORMETRIC
UNITS - 75 MICROMOLES/LITER

WEEKLY DATA FOR YEAR 1981

SAMPLE STARTED DURING WEEK OF	SOUTH DAKOTA BEADLE CO 430060001	TEXAS VICTORIA CO 455350001		
JAN 1		4.640		
JAN 8		4.780		
JAN 15		3.090		
JAN 22	5.770	8.500		
JAN 29		4.220		
FEB 5				
FEB 12				
FEB 19	2.670	4.920		
FEB 26		2.100		
MAR 4		7.040		
MAR 11	1.690			
MAR 18	.840			
MAR 25				
APR 1				
APR 8	4.500	2.500		
APR 15		.140		
APR 22	5.210	5.630		
APR 29		1.400		
MAY 6	9.290	6.610		
MAY 13		5.910		
MAY 20	2.530	8.870		
MAY 27		2.110		
JUN 3	7.320	7.880		
JUN 10				
JUN 17	9.290			
JUN 24	1.120			
JUL 1	1.120			
JUL 8				
JUL 15	1.690			
JUL 22	6.470			
JUL 29				
AUG 5	2.810			
AUG 12	1.970			
AUG 19				
AUG 26				
SEP 2	8.160			
SEP 9				
SEP 16				
SEP 23	1.690			
SEP 30	1.690			
OCT 7	4.920			
OCT 14	2.390			
OCT 21				
OCT 28				
NOV 4				
NOV 11	5.070			
NOV 18	1.400			
NOV 25				
DEC 2	5.910			
DEC 9				
DEC 16				
DEC 23	5.350			
DEC 30				

WORLD METEOROLOGICAL ORGANIZATION

PRECIPITATION NETWORK DATA

65318 - AMMONIUM
83 - PRECIP COLORMETRIC
UNITS - 75 MICROMOLES/LITER

WEEKLY DATA FOR YEAR 1981

SAMPLE STARTED DURING WEEK OF	CALIFORNIA INYO CO 053460001	HAWAII MAUNA LOA 120080002	ILLINOIS SALEM 146920001	MISSISSIPPI LAUDERDALE CO 251460001
JAN 1			3.330	6.110
JAN 8				3.880
JAN 15			2.770	6.110
JAN 22	3.330		.550	3.330
JAN 29		3.880	7.770	3.330
FEB 5	8.880		4.440	4.440
FEB 12			8.330	9.440
FEB 19	3.330		1.110	7.770
FEB 26	4.440	1.110	8.880	3.880
MAR 4	.550		6.660	1.660
MAR 11	4.440			6.110
MAR 18	3.330		1.660	6.110
MAR 25				8.880
APR 1			.550	
APR 8	3.880			
APR 15				3.880
APR 22				.000
APR 29		.550		3.880
MAY 6				5.000
MAY 13	8.330			4.440
MAY 20				8.330
MAY 27				5.550
JUN 3				5.000
JUN 10				4.440
JUN 17				6.110
JUN 24				.000
JUL 1				4.440
JUL 8				
JUL 15				1.110
JUL 22		1.110		5.550
JUL 29		1.110		
AUG 5	2.800	2.220		3.330
AUG 12		2.220		
AUG 19				3.880
AUG 26				
SEP 2		1.110		8.880
SEP 9	1.100	1.110		
SEP 16		2.220		
SEP 23				
SEP 30				3.330
OCT 7	4.440			8.880
OCT 14				2.770
OCT 21	8.330	3.330		
OCT 28		3.330	4.440	
NOV 4	1.110		9.440	
NOV 11		1.110	1.660	7.220
NOV 18		1.110		9.440
NOV 25		1.110		
DEC 2				4.440
DEC 9			8.330	6.110
DEC 16		1.110	7.770	
DEC 23	1.110		4.440	6.670
DEC 30				

WORLD METEOROLOGICAL ORGANIZATION

PRECIPITATION NETWORK DATA

65318 - AMMONIUM
83 - PRECIP COLORMETRIC
UNITS - 75 MICROMOLES/LITER

WEEKLY DATA FOR YEAR 1981

SAMPLE STARTED DURING WEEK OF	SOUTH DAKOTA BEADLE CO 430060001	TEXAS VICTORIA CO 455350001		
JAN 1		.000		
JAN 8		2.770		
JAN 15		5.550		
JAN 22	1.110	8.330		
JAN 29		3.330		
FEB 5				
FEB 12				
FEB 19	8.300	1.110		
FEB 26		8.330		
MAR 4		1.660		
MAR 11	4.440			
MAR 18	5.000			
MAR 25				
APR 1				
APR 8	5.000	1.110		
APR 15		7.770		
APR 22	8.330	6.110		
APR 29		6.110		
MAY 6	2.770	.000		
MAY 13		7.220		
MAY 20	3.880	1.660		
MAY 27		1.110		
JUN 3	6.660	5.000		
JUN 10				
JUN 17	.550			
JUN 24	9.440			
JUL 1	5.000			
JUL 8				
JUL 15	2.220			
JUL 22	6.110			
JUL 29				
AUG 5	1.660			
AUG 12	1.660			
AUG 19				
AUG 26				
SEP 2	1.660			
SEP 9				
SEP 16				
SEP 23	8.330			
SEP 30	.000			
OCT 7	7.220			
OCT 14	7.770			
OCT 21				
OCT 28				
NOV 4				
NOV 11	4.440			
NOV 18	.550			
NOV 25				
DEC 2	6.660			
DEC 9				
DEC 16				
DEC 23	2.780			
DEC 30				

WORLD METEOROLOGICAL ORGANIZATION

PRECIPITATION NETWORK DATA

65321 - NITRATE
83 - PRECIP COLORMETRIC
UNITS - 75 MICROMOLES/LITER

WEEKLY DATA FOR YEAR 1981

SAMPLE STARTED DURING WEEK OF	CALIFORNIA INYO CO 053460001	HAWAII MAUNA LOA 120080002	ILLINOIS SALEM 146920001	MISSISSIPPI LAUDERDALE CO 251460001
JAN 1			1.610	6.770
JAN 8				4.190
JAN 15			3.700	9.350
JAN 22	6.290		9.670	2.410
JAN 29		4.030	8.060	5.000
FEB 5	1.120		.160	9.190
FEB 12			9.830	1.290
FEB 19	8.060		5.640	4.670
FEB 26	9.350	5.320	4.350	2.900
MAR 4	9.670		8.380	4.190
MAR 11	5.480			6.930
MAR 18	9.510		6.450	4.350
MAR 25				1.120
APR 1			1.290	
APR 8	5.800			
APR 15				5.320
APR 22				6.610
APR 29		3.540		5.000
MAY 6				7.580
MAY 13	6.770			6.770
MAY 20				7.250
MAY 27				5.960
JUN 3				4.350
JUN 10				7.900
JUN 17				8.540
JUN 24				4.830
JUL 1				2.090
JUL 8				
JUL 15				.960
JUL 22		1.610		3.700
JUL 29		2.090		
AUG 5	.500	5.960		8.870
AUG 12		2.580		
AUG 19				1.120
AUG 26				
SEP 2		4.350		.800
SEP 9	6.900	.480		
SEP 16		1.610		
SEP 23				
SEP 30				3.060
OCT 7	.000			4.030
OCT 14				4.670
OCT 21	5.480	2.090		
OCT 28		1.120	4.510	
NOV 4	.800		4.510	
NOV 11		1.120	8.870	.640
NOV 18		1.120	9.190	9.830
NOV 25		.480		
DEC 2				8.870
DEC 9			6.450	.800
DEC 16		.320	6.930	8.700
DEC 23	4.350		9.190	5.160
DEC 30				

WORLD METEOROLOGICAL ORGANIZATION

PRECIPITATION NETWORK DATA

65321 - NITRATE
83 - PRECIP COLORMETRIC
UNITS - 75 MICROMOLES/LITER

WEEKLY DATA FOR YEAR 1981

SAMPLE STARTED DURING WEEK OF	SOUTH DAKOTA BEADLE CO 430060001	TEXAS VICTORIA CO 455350001
JAN 1		8.060
JAN 8		8.060
JAN 15		1.930
JAN 22	8.380	2.580
JAN 29		9.190
FEB 5		
FEB 12		
FEB 19	3.900	8.700
FEB 26		6.930
MAR 4		3.700
MAR 11	3.700	
MAR 18	4.510	
MAR 25		
APR 1		
APR 8	7.100	.160
APR 15		3.540
APR 22	.600	9.190
APR 29		5.480
MAY 6	7.900	7.090
MAY 13		8.380
MAY 20	3.700	8.700
MAY 27		1.770
JUN 3	4.190	4.830
JUN 10		
JUN 17	1.610	
JUN 24	5.480	
JUL 1	9.700	
JUL 8		
JUL 15	3.380	
JUL 22	8.870	
JUL 29		
AUG 5	5.800	
AUG 12	2.740	
AUG 19		
AUG 26		
SEP 2	7.090	
SEP 9		
SEP 16		
SEP 23	6.610	
SEP 30	7.900	
OCT 7	5.000	
OCT 14	5.960	
OCT 21		
OCT 28		
NOV 4		
NOV 11	9.510	
NOV 18	3.540	
NOV 25		
DEC 2	9.670	
DEC 9		
DEC 16		
DEC 23	7.420	
DEC 30		

WORLD METEOROLOGICAL ORGANIZATION

PRECIPITATION NETWORK DATA

65322 - SULFATE
81 - PRECIP COLORMETRIC
UNITS - 75 MICROMOLES/LITER

WEEKLY DATA FOR YEAR 1981

SAMPLE STARTED DURING WEEK OF	CALIFORNIA INYO CO 053460001	HAWAII MAUNA LOA 120080002	ILLINOIS SALEM 146920001	MISSISSIPPI LAUDERDALE CO 251460001
JAN 1			8.430	7.700
JAN 8				2.290
JAN 15			6.660	9.680
JAN 22	6.350		8.540	5.830
JAN 29		3.220	3.750	9.160
FEB 5	5.100		1.970	9.270
FEB 12			2.600	.930
FEB 19	3.950		6.350	4.370
FEB 26	9.470	6.250	6.770	5.930
MAR 4	9.470		7.080	.520
MAR 11	9.370			3.120
MAR 18	4.790		9.790	1.660
MAR 25				9.890
APR 1			8.430	
APR 8	5.720			
APR 15				1.250
APR 22				.100
APR 29		6.350		9.580
MAY 6				7.180
MAY 13	6.660			5.930
MAY 20				1.900
MAY 27				3.950
JUN 3				7.600
JUN 10				8.950
JUN 17				.100
JUN 24				1.140
JUL 1				4.270
JUL 8				
JUL 15				3.850
JUL 22		8.020		2.290
JUL 29		4.470		
AUG 5	1.450	4.790		7.500
AUG 12		9.060		
AUG 19				8.540
AUG 26				
SEP 2		2.700		5.310
SEP 9	5.400	2.290		
SEP 16		7.810		
SEP 23				
SEP 30				8.850
OCT 7	.930			.310
OCT 14				5.520
OCT 21	4.060	.830		
OCT 28		3.020	5.100	
NOV 4	3.950		7.390	
NOV 11		3.220	5.410	1.560
NOV 18		2.910	4.790	8.020
NOV 25		5.310		
DEC 2				3.330
DEC 9			6.870	3.850
DEC 16		1.040	3.430	7.810
DEC 23	4.480		5.520	7.920
DEC 30				

WORLD METEOROLOGICAL ORGANIZATION

PRECIPITATION NETWORK DATA

65322 - SULFATE
81 - PRECIP COLORMETRIC
UNITS - 75 MICROMOLES/LITER

WEEKLY DATA FOR YEAR 1981

SAMPLE STARTED DURING WEEK OF	SOUTH DAKOTA BEADLE CO 430060001	TEXAS VICTORIA CO 455350001		
JAN 1		2.180		
JAN 8		5.930		
JAN 15		9.680		
JAN 22	3.120	2.400		
JAN 29		4.160		
FEB 5				
FEB 12				
FEB 19	.100	2.600		
FEB 26		3.020		
MAR 4		6.870		
MAR 11	3.120			
MAR 18	4.680			
MAR 25				
APR 1				
APR 8	.720	4.370		
APR 15		4.890		
APR 22	3.640	8.540		
APR 29		9.890		
MAY 6	6.560	1.140		
MAY 13		7.290		
MAY 20	1.040	9.580		
MAY 27		1.770		
JUN 3	9.470	8.750		
JUN 10				
JUN 17	2.700			
JUN 24	8.020			
JUL 1	6.140			
JUL 8				
JUL 15	.100			
JUL 22				
JUL 29				
AUG 5	5.720			
AUG 12	9.470			
AUG 19				
AUG 26				
SEP 2	4.060			
SEP 9				
SEP 16				
SEP 23	5.520			
SEP 30	8.220			
OCT 7	4.370			
OCT 14	5.410			
OCT 21				
OCT 28				
NOV 4				
NOV 11	5.200			
NOV 18	4.890			
NOV 25				
DEC 2	1.250			
DEC 9				
DEC 16				
DEC 23	.210			
DEC 30				

WORLD METEOROLOGICAL ORGANIZATION

PRECIPITATION NETWORK DATA

65326 - PHOSPHATE TRIBASIC
81 - PRECIP COLORMETRIC
UNITS - 75 MICROMOLES/LITER

WEEKLY DATA FOR YEAR 1981

SAMPLE STARTED DURING WEEK OF	CALIFORNIA INYO CO 053460001	HAWAII MAUNA LOA 120080002	ILLINOIS SALEM 146920001	MISSISSIPPI LAUDERDALE CO 251460001
JAN 1			.160	.030
JAN 8				.030
JAN 15			.030	.030
JAN 22	.030		.030	.030
JAN 29		.030	.030	.030
FEB 5	.130		.030	.030
FEB 12			.030	.090
FEB 19	.030		.030	.030
FEB 26	.030	.050	.030	.030
MAR 4	.290		.030	.030
MAR 11	.030			.030
MAR 18	.030		.030	.030
MAR 25				.030
APR 1			.030	
APR 8	.030			
APR 15				.030
APR 22				.030
APR 29		.030		.030
MAY 6				.030
MAY 13	.030			.030
MAY 20				.230
MAY 27				.030
JUN 3				.030
JUN 10				.030
JUN 17				.030
JUN 24				1.040
JUL 1				.030
JUL 8				
JUL 15				.030
JUL 22		.030		.060
JUL 29		.030		
AUG 5	.090	.030		.030
AUG 12		.030		
AUG 19				.030
AUG 26				
SEP 2		.030		.030
SEP 9	.120	.030		
SEP 16		.030		
SEP 23				
SEP 30				.030
OCT 7	.030			.030
OCT 14				.030
OCT 21	.230	.100		
OCT 28		.080	.030	
NOV 4	.030		.030	
NOV 11		.030	.040	.030
NOV 18		.030	.030	.030
NOV 25		.030		
DEC 2				.030
DEC 9			.240	.030
DEC 16		.030	.030	.030
DEC 23	.030		.030	.030
DEC 30				

WORLD METEOROLOGICAL ORGANIZATION

PRECIPITATION NETWORK DATA

65326 - PHOSPHATE TRIBASIC
81 - PRECIP COLORMETRIC
UNITS - 75 MICROMOLES/LITER

WEEKLY DATA FOR YEAR 1981

SAMPLE STARTED DURING WEEK OF	SOUTH DAKOTA BEADLE CO 430060001	TEXAS VICTORIA CO 455350001		
JAN 1		.030		
JAN 8		.030		
JAN 15		.030		
JAN 22	.030	.030		
JAN 29		.030		
FEB 5				
FEB 12				
FEB 19	.170	.030		
FEB 26		.030		
MAR 4		.030		
MAR 11	.030			
MAR 18	.030			
MAR 25				
APR 1				
APR 8	.110	.030		
APR 15		.030		
APR 22	.030	.030		
APR 29		.030		
MAY 6	.030	.030		
MAY 13		.030		
MAY 20	.030	.030		
MAY 27		.030		
JUN 3	.030	.030		
JUN 10				
JUN 17	.030			
JUN 24	.030			
JUL 1	.030			
JUL 8				
JUL 15	.030			
JUL 22	.030			
JUL 29				
AUG 5	.030			
AUG 12	.030			
AUG 19				
AUG 26				
SEP 2	.080			
SEP 9				
SEP 16				
SEP 23	.030			
SEP 30	.030			
OCT 7	.030			
OCT 14	.030			
OCT 21				
OCT 23				
NOV 4				
NOV 11	.030			
NOV 18	.030			
NOV 25				
DEC 2	.030			
DEC 9				
DEC 16				
DEC 23	.030			
DEC 30				

SECTION IIC

CARBON DIOXIDE

ENVIRONMENTAL MONITORING SYSTEMS LABORATORY
STATISTICAL AND TECHNICAL ANALYSIS BRANCH

YEAR: 1981

CARBON DIOXIDE 4210211

ITALY
MONTE CIMONE
MT. CIMONE ST.-SESTOLA (MODENA

(IT4000101Q08)

DAILY DATA LISTING OF 1-HOUR DATA
CONCENTRATION IN PARTS PER MILLION
INSTRUMENTAL INFRARED ABSORPTION

M O N T H

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	335	335	342	339	339	331	327	331	328	333	334	340	1
2	337	335	340	339	338	330 *	332	330	330	333	333	342	2
3	336	336	341	339	339	336	335	329	332	333	333	345	3
4	336	338	343	340	339	336	330	326	332	332	333	339	4
5	339	342	342	340	339 *	335	328	328	329	331	333	340	5
6	338	339	341	342	338	336	326	325	329	332	336	340	6
7	341	337	340	339 *	338	332	325	326	327	332	338	339	7
8	340	336	339	338	337	331	327 *	330	326	332	339	338	8
9	338	336	338	339	336	333	325	329	329	331	339	333	9
10	336	337	338	340	335	332	325	328	331	332	340	338	10
11	336	340	337	341	338	332	326	329	332	333	336	339	11
12	337	341	339	340	338	332	323	329	329	334	336	340	12
13	340	341	339 *	339 *	338	333	322	331	331	333	337	342	13
14	340	339		338 *	338	330	327	327	332	333	338	341	14
15	339	337		339	337	330	324	324	330	333	337	339	15
16	339	337	339 *	339	337	331	328 *	323	328	333	338	339	16
17	337	341	339	340	337	333	330	327	329 *	332	339	338	17
18	338	343	341	340	336	335	335	330	331	332	335	338	18
19	338	344	341	341	335	334	332	325	331	334	334	344	19
20	339	342	339	339	334	332	328	329	331	336	334	341	20
21	344	342	339	338	336	331	329	328	332	336	334	342	21
22	341	343	338 *	337	337	334	330	327	331	334	334	340	22
23	340	343	339 *	337	336	333 *	330	327	332	334	335	340	23
24	337	342	339 *	339 *	335	328	332	328	332	336	336	339	24
25	336	345	338	338	335	329	327	325	330	336	337	344	25
26	338	343	337	338	338	331	327	324	332	336	337 *	344	26
27	338	340	337 *	340	337	328	325	324	332	339	336	341	27
28	339	341	338 *	340	336	335	326	327	332	335	338	339	28
29	340		337	340	333	333	324	328	333	334	340	338	29
30	339		338	339	331	332	328	328	332	334	341	338	30
31	337		339		329		330	327		334		337	31

MONTHLY SUMMARIES

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
AMN	338	340	339	339	336	332	328	327	331	334	336	340
NO.	727	652	569	636	719	685	713	732	701	720	692	729
MAX	348	349	345	346	342	339	337	334	341	345	343	352

	QUARTER 1	QUARTER 2	QUARTER 3	QUARTER 4
!AMN	339	336	329	337
!NO.	1948	2040	2146	2141
!MAX	349	346	341	352
!S.D	2.925	4.086	3.902	3.677

	YEAR
!AMN	335
!NO.	8275
!MAX	352
!S.D	5.681

*----VALUE IS NOT TRULY REPRESENTATIVE DUE TO INSUFFICIENT DATA.

```
                         ENVIRONMENTAL MONITORING SYSTEMS LABORATORY
YEAR:  1981               STATISTICAL AND TECHNICAL ANALYSIS BRANCH                FED REP GERMANY
                                                                                   SCHAUINSLAND
                                 CARBON DIOXIDE        4210211                     BUNDESSTELLE FUR UMWELTANGELEG
                                 ______________
                                                                                   (GE9000101Q08)
                         DAILY DATA LISTING OF   1-HOUR DATA
                         CONCENTRATION IN PARTS PER MILLION
                         INSTRUMENTAL  INFRARED ABSORPTION

                                          M O N T H
DAY                                                                                                  DAY
      JAN     FEB     MAR     APR     MAY     JUN     JUL     AUG     SEP     OCT     NOV     DEC
  1   340     335             361     339     329     324     331     334 *                   341     1
  2   337     334             362     339     330     321     330     332 *                   342     2
  3   335     336             364     338     338     333     329     330                     346     3
  4   337     338             358     337     337     330 *   332     328                     343     4
  5   339     339     353 *   350     338     328             332     327                     339     5
  6   341     339     343     349     337     326     328 *   332     326                     339     6
  7   342     339     339     339     336     331     327     329     325                     340     7
  8   340     337     340     340     336     336     329     331     330                     339     8
  9   333     335     340     339     336     337     326     334     330                     341     9
 10   340     339     339     338     338     336     329     340     330                     341    10
 11   350     340     340     337     339     333     340     332     331             340 *   339    11
 12   345     341     339     337     336     330     328     335     331             342     348    12
 13   346     342     338     341     337     332     330     331     329             342     344    13
 14   339     347     338     340     336     327     325     325     330 *           340     341    14
 15   339     344     338     339     334     328     324     324                     341     341    15
 16   340     344     340     339     336     331     326     326                     338     353    16
 17   339     346     341     340     337     333     330     329                     344     342    17
 18   341     346     344     343     333     337     329     324                     338     345    18
 19   340     349     340     342     333     334     334     320                     339     357    19
 20   341     349     339     341     332     327     332     326                     337     340    20
 21   346     348     338     342     332     334     331     327                     338     341    21
 22   337     346     339     343     336     332     328     325                     337     341    22
 23   338     345     338     343     329     327     332     330                     337     342    23
 24   339     351     338     341     335     322     327     326                     340 *   342    24
 25   340     350     335     338     337     321     329     326                     337 *   355    25
 26   344 *   353     337     340     338     328     326     326                     337     348    26
 27           345 *   337     341     337     328     330     332                     337     342    27
 28                   337     342     334     332     327     329                     338     340    28
 29                   339     337     336     337     330     329                     341     341    29
 30   339 *           339     337     331     329     327     330                     341     340    30
 31   336             341             330             326     327                             340    31
_____________________________________________MONTHLY SUMMARIES_________________________________________
AMN   340     343     339     343     335     331     329     329     329             339     343
NO.   639     628     633     709     733     708     695     730     303       0     434     724
MAX   357     367     357     379     345     350     347     348     348             369     385
_______________________________________________________________________________________________________
!       QUARTER 1         !       QUARTER 2         !       QUARTER 3         !       QUARTER 4        !
!AMN         341          !AMN         337          !AMN         329          !AMN         342         !
!NO.        1900          !NO.        2150          !NO.        1728          !NO.        1158         !
!MAX         367          !MAX         379          !MAX         348          !MAX         385         !
!S.D       6.764          !S.D       8.117          !S.D       5.087          !S.D       5.523         !
_______________________________________________________________________________________________________
                                          !   YEAR    !
                                          !AMN   337  !
                                          !NO.  6936  !
                                          !MAX   385  !
                                          !S.D 7.830  !
                                          _____________

*----VALUE IS NOT TRULY REPRESENTATIVE DUE TO  INSUFFICIENT DATA.
```

```
                                     ENVIRONMENTAL MONITORING SYSTEMS LABORATORY
YEAR:  1981                           STATISTICAL AND TECHNICAL ANALYSIS BRANCH
                                                                                        FED REP GERMANY
                                                                                        LANGENBRUGGE
                                          CARBON DIOXIDE       4210211                  BUNDESSTELLE FUR UMWELTANGELEG
                                          _______________
                                                                                        (GE6000101Q08)
                                     DAILY DATA LISTING OF   1-HOUR DATA
                                     CONCENTRATION IN PARTS PER MILLION
                                     INSTRUMENTAL  INFRARED ABSORPTION

                                                  M O N T H
DAY                                                                                                           DAY
      JAN      FEB      MAR      APR      MAY      JUN      JUL      AUG      SEP      OCT      NOV      DEC
 1             418               346      335      348      336      338      359      353      343      345      1
 2    340 *    380               346      337      352      340      335      349      356      334      351 *    2
 3    337      341      366 *    353      339      350      342      336      359      343      354 *    357      3
 4    339      340      340      353      342      335      337      345      369      334      352      343      4
 5    340      338      349      351      348      337      355      353      361      339      336      336      5
 6    344      348      360      351      340      341      362      363      369      354      335      343      6
 7    352      339      349      358      350      349      353      341      357      335      340      340      7
 8    359      337      342      357      340      348      358      340      358      335      342      343      8
 9    357      344      340      355      342      347      336      346      376      334      342      344      9
10    349      349      348      363      341      340      339      327      371      334      351      345     10
11    342      339      343      354      338      353      364      327      350      335      348      358     11
12    347      343      346      358      343      337      343      343      350      338      351      349     12
13    342      348      345      351      343      338      344      353      341      335      337      353     13
14    346      353      348      357      351      344      348      377      345      338      335      355     14
15    339      355      347      353      360      344      336      375      341      361 *    343      366     15
16    340      360      354      343      362      337      351      335      351      345 *    351      362     16
17    347      370      349      345      358      337      335      326      342      353      353      350     17
18    347      348      351      343      357      339      360      330      337      344      351      354     18
19    345      346      344      341      345      340      341      336      345      346      339      350     19
20    348      349      346      341      342      340      337      330      343      340      347      363     20
21    352      356      346      339      342      337      350 *    324      357      345      337      364     21
22    362      365      342      339      345      343      345 *    333      367      356      340      372     22
23    362      363      343      348      357      343      346      326      341      374      340      371     23
24    361      362 *    341      344      349      352      339      328      339      364      336      378     24
25    343               348      341      345      340      348      332      351      349      332      365     25
26    341               350      340      354      343      338      328      342      354      337      355     26
27    357               344      338      355      358      332      325      360      372      337      353     27
28    371               346      339      341      359      337      336      360      346      340      377     28
29    367               346      343      353      343      340      341      344      339      346      368     29
30    363               354      337      370      335      333      344      352      341      335      352     30
31    398               356               361               331      363               337               349     31
___________________________________________________MONTHLY SUMMARIES__________________________________________
AMN   352      353      347      348      348      344      343      340      353      346      342      355
NO.   704      560      683      711      739      715      704      737      711      717      703      720
MAX   437      436      410      406      477      443      459      481      452      415      375      383
______________________________________________________________________________________________________________
!         QUARTER 1           !         QUARTER 2           !         QUARTER 3           !        QUARTER 4         !
!AMN         351              !AMN        346               !AMN        345               !AMN       348             !
!NO.        1947              !NO.       2165               !NO.       2152               !NO.      2140             !
!MAX         437              !MAX        477               !MAX        481               !MAX       415             !
!S.D       4.305              !S.D      9.309               !S.D      6.532               !S.D     3.559             !
______________________________________________________________________________________________________________
                                                  !  YEAR   !
                                                  !AMN  347 !
                                                  !NO. 8404 !
                                                  !MAX  481 !
                                                  !S.D 9.328 !
                                                  __________
*----VALUE IS NOT TRULY REPRESENTATIVE DUE TO  INSUFFICIENT DATA.
```

ENVIRONMENTAL MONITORING SYSTEMS LABORATORY
STATISTICAL AND TECHNICAL ANALYSIS BRANCH

YEAR: 1981

FED REP GERMANY
DEUSELBACH
UMELTBUNDESAMT,MEBSTELLEDEUSEL

CARBON DIOXIDE 4210211

(GE3000101Q08)

DAILY DATA LISTING OF 1-HOUR DATA
CONCENTRATION IN PARTS PER MILLION
INSTRUMENTAL INFRARED ABSORPTION

M O N T H

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	342	351	343	382	337	334	333	338	334	339	342	352	1
2	340	347	343	380	342	327	326	340	329	340	341	350	2
3	336	347	341	374	343	334	334	345	329	335	342 *	357	3
4	339	341	360	358	339	340	337	342	330	336	340 *	350	4
5	340	344	353	353	340	325	333	338	332	338	345	345	5
6	344	344	352	351	338	329	336	336	331	335	347	347	6
7	344	341	343	349	335	329	335	344	327	334	346	344	7
8	348	338	343	347	335	333	332	340	337	335	352	341	8
9	345	340	339	346	332	335	333	355	337	336	355	346	9
10	348	340	341	345	334	330	351	341	336	337	353	345	10
11	342	341	341	342	342	328	347	336	340	339	357	349	11
12	348	344	340	338	333	338	337	330	333	341	358	352	12
13	344	348	340	343	336	337	337	326	332	340	346	352	13
14	342	351	341	340	336	327	333	328	333	340	343	343	14
15	340	356	341	339	338	330	332	330	339	344	346	345	15
16	342	362	348	340	337	335	331	334	333	342	346	360	16
17	338	351	345	343	338	341	331	332	341	346	352	365	17
18	341	355	343	343	336	339	342	329	332	342	348	372	18
19	343 *	348	341	342	332	338	335	329	331	345	342	362	19
20	348 *	355	339	341	330	338	337	335	335	340	343	351	20
21	360	366	340	342	333	337	339	332	335	343	344	358	21
22	356	366	341	340	333	330	332	335	336	344	342	354	22
23	347	362	343	345	335	321	334	333	334	350	343	367	23
24	349	364	340	341	333	322	334	335	332	353	342	370	24
25	370	370	338	341	338	323	336	335	336	349	344	357	25
26	346	357	340	342	336	337	334	342 *	337	343	342	351	26
27	356	352	343	344	337	332	332	332	334	352	338	356	27
28	362	352	347	346	335	327	336	334	335	340	336	357	28
29	353		347	344	335	338	336	336	335	338	340	354	29
30	353		348	343	331	330	340	331	334	341	341	346	30
31	360		362		327		331	331		340		344	31

MONTHLY SUMMARIES

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
AMN	348	351	344	347	336	332	335	336	334	341	345	353
NO.	714	667	738	714	736	710	729	710	709	731	672	732
MAX	383	381	377	397	366	375	377	368	360	360	364	390

	QUARTER 1	QUARTER 2	QUARTER 3	QUARTER 4
AMN	347	338	335	346
NO.	2119	2160	2148	2135
MAX	383	397	377	390
S.D	9.077	2.433	9.738	8.903

	YEAR
AMN	342
NO.	8562
MAX	397
S.D	1.413

*----VALUE IS NOT TRULY REPRESENTATIVE DUE TO INSUFFICIENT DATA.

```
                         ENVIRONMENTAL MONITORING SYSTEMS LABORATORY
                          STATISTICAL AND TECHNICAL ANALYSIS BRANCH
YEAR:  1981                                                                   FED REP GERMANY
                                                                              BROTJACKLRIEGEL
                              CARBON DIOXIDE        4210211                   BUNDESSTELLE FUR UMWELTANGELEG
                              _______________
                                                                              (GE2000101Q08)
                         DAILY DATA LISTING OF   1-HOUR DATA
                         CONCENTRATION IN PARTS PER MILLION
                         INSTRUMENTAL  INFRARED ABSORPTION

                                             M O N T H
DAY                                                                                                            DAY
     JAN      FEB      MAR      APR      MAY      JUN      JUL      AUG      SEP      OCT      NOV      DEC
 1   340      339      344      335      341 *    327      328      328      329      342 *    339 *    342       1
 2   339      346      339      336      337 *    327      321      324      324      336      341 *    345       2
 3   336      343      341      337      337      327      327      331      325      335      341 *    346       3
 4   336      339      348      338      337      337      331      329      327      332      344 *    345       4
 5   337      342      345      346      341      338      323      328      327      330      351      338       5
 6   338      345      347      342      340      327      322      331      325      330      343      339       6
 7   340      342      342      343      338      326      323      338      326      333      340      340       7
 8   342      341      340      338      332      328      323      330      326      331      344      336       8
 9   343      338      340      339      331      330      320      336      333      328      345      340       9
10   338      341      341      338      334      332      320      345      334      332      346      340      10
11   352      340      339      338      335      326      317      334      338      333      352      339      11
12   359      339      338      336      336      328      333      329      336 *    335      350      343      12
13   351      343      340      335      338      333      326      321 *    337      336      353      344      13
14   346      344      338      337      337      330      335      320               336      338      340      14
15   339      347      338      337      333      332      330 *    319      337 *    334      341      338      15
16   342      343      338      339      333      334      326      323      329      339      342      348      16
17   339      344      344 *    342      339      334      327 *    326      337      335      343      343      17
18   342      344      349 *    344      335      335      331      323      333      335      343      343      18
19   343      347      345      344      333      336      332      322      336      341      341      358      19
20   343      348      340      342      329      333      333      327      331      337      337      352      20
21   348      348      342      342      328      333      335      328      328      336      338      339      21
22   344      350      339      340      339      333      332      325      331      337      338      342      22
23   340      352      340      338      336      326      327      328      337 *    337      336      353      23
24   338      353      339      340      334      324      328      326      331      340      336      338      24
25   351      344      341      339      331      321      331      324      345      340      338      358      25
26   341      339      338      336      337      319      331      329      328      338      340      355      26
27   338      340      339      342      336      325      332      333      341      352      337      350      27
28   342      342      339      341      332      319      330      327      347      343      337      341      28
29   336               338      341      335      331      329      326      342      339      339      342      29
30   338               336      341      331      332      326      327      338      340      341      340      30
31   338               335               329               325      323               340               340      31
_____________________________________________MONTHLY SUMMARIES_________________________________________________
AMN  342      344      341      340      335      330      328      328      333      336      342      344
NO.  739      668      717      715      717      716      716      734      647      726      661      738
MAX  369      361      359      355      359      354      353      355      366      363      364      373
_______________________________________________________________________________________________________________
!        QUARTER 1           !        QUARTER 2           !        QUARTER 3           !        QUARTER 4          !
!AMN           342           !AMN           335           !AMN           329           !AMN           341          !
!NO.          2124           !NO.          2148           !NO.          2097           !NO.          2125          !
!MAX           369           !MAX           359           !MAX           366           !MAX           373          !
!S.D         5.238           !S.D         6.740           !S.D         7.439           !S.D         6.830          !
_______________________________________________________________________________________________________________
                                            !    YEAR    !
                                            !AMN    337  !
                                            !NO.   8494  !
                                            !MAX    373  !
                                            !S.D 8.307   !
                                            _____________

*----VALUE IS NOT TRULY REPRESENTATIVE DUE TO  INSUFFICIENT DATA.
```

POLLUTANT - 42102 - CARBON DIOXIDE
METHOD - 11 - INSTRUMENTAL INFRARED ABSORPTION
UNITS - 07 - PARTS PER MILLION
SAMPLING INTERVAL - 1 - 01 HOUR DATA

															ARITHMETIC		GEOMETRIC	
	YEAR	NUM	MIN	10	20	30	40	50	60	70	80	90	95	99	MAX	MEAN	STD	MEAN	STD
FED REP GERMANY																			
BROTJACKLRIEGEL GE2000101Q08	81	8495	310	325	329	333	336	338	339	341	343	346	350	358	373	336.6	8.3	336.5	1.039
DEUSELBACH GE3000101Q08	81	8563	307	327	333	337	339	341	343	346	350	356	362	375	397	341.8	11.4	341.6	1.042
LANGENBRUGGE GE6000101Q08	81	8404	312	328	334	337	340	343	347	352	358	370	384	421	481	347.4	19.3	346.9	1.061
SCHAUINSLAND GE9000101Q08	81	6937	313	326	330	333	336	338	339	340	341	345	348	362	385	336.7	7.8	336.5	1.035
ITALY																			
MONTE CIMONE IT4000101Q08	81	8276	314	328	331	332	334	336	337	338	339	341	342	345	352	335.0	5.7	334.9	1.033

SECTION IID

SUSPENDED PARTICULATE MATTER

```
                              ENVIRONMENTAL MONITORING SYSTEMS LABORATORY
YEAR:  1981                    STATISTICAL AND TECHNICAL ANALYSIS BRANCH
                                                                              FED REP GERMANY
                                   SUSPENDED  PARTICULA  1110175              BROTJACKLRIEGEL
                                                                              BUNDESSTELLE FUR UMWELTANGELEG
                                   ___________
                                                                              (GE2000101Q08)
                              DAILY DATA LISTING OF  24-HOUR DATA
                              CONCENTRATION IN UG/CU METER (25 C)
                              HI-VOL 20M CUT  GRAVIMETRIC

                                          M O N T H
DAY
        JAN     FEB     MAR     APR     MAY     JUN     JUL     AUG     SEP     OCT     NOV     DEC   DAY
  1                              44      10      39      40                                            1
  2                              67      26      41      34                                            2
  3                              58      26      55      43                                            3
  4                             105      48      34      24                                            4
  5                              83      18      37      25                                            5
  6                              60      20      57      28                                            6
  7                              66      29      35      40                                            7
  8                              69      67      28      84                                            8
  9                              48      46      31      73                                            9
 10                              45      48      21      67                                           10
 11                              54      46      38      80                                           11
 12                              38      47      45      71                                           12
 13                              77      40      36      39                                           13
 14                              67      52      30      34                                           14
 15                              49      47      41      50                                           15
 16                              69      32      47      43                                           16
 17                              39      18      41      32                                           17
 18                              49      16      16       9                                           18
 19                              54      21      22       8                                           19
 20                              58      36      46      17                                           20
 21                              72      55      41      22                                           21
 22                              60      49      54      26                                           22
 23                              39      34      50      24                                           23
 24                              56      21      54      10                                           24
 25                              69      22      57      16                                           25
 26                              66      46      41      26                                           26
 27                              21      22      27      19                                           27
 28                              38      19      35      26                                           28
 29                              41      17      30      41                                           29
 30                              15      21      26      59                                           30
 31                                      24              44                                           31
_____________________________________________MONTHLY SUMMARIES__________________________________________
AMN                              56      33      39      37
NO.       0       0       0      30      31      30      31       0       0       0       0       0
MAX                             105      67      57      84
_________________________________________________________________________________________________________
!        QUARTER 1          !        QUARTER 2          !        QUARTER 3          !        QUARTER 4   !
!AMN                        !AMN             42         !AMN             37         !AMN                 !
!NO.             0          !NO.             91         !NO.             31         !NO.         0       !
!MAX                        !MAX            105         !MAX             84         !MAX                 !
!S.D                        !S.D          7.694         !S.D           .763         !S.D                 !
_________________________________________________________________________________________________________
                                             !   YEAR    !
                                             !AMN    41  !
                                             !NO.   122  !
                                             !MAX   105  !
                                             !S.D 8.568  !
                                             ____________

*----VALUE IS NOT TRULY REPRESENTATIVE DUE TO  INSUFFICIENT DATA.
```

ENVIRONMENTAL MONITORING SYSTEMS LABORATORY
STATISTICAL AND TECHNICAL ANALYSIS BRANCH

YEAR: 1981

FED REP GERMANY
DEUSELBACH
UMELTBUNDESAMT,MEBSTELLEDEUSEL

(GE3000101Q08)

SUSPENDED PARTICULA 1110175

DAILY DATA LISTING OF 24-HOUR DATA
CONCENTRATION IN UG/CU METER (25 C)
HI-VOL 20M CUT GRAVIMETRIC

M O N T H

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1				162	14	29	30						1
2				126	24	64	38						2
3				147	27	41	24						3
4				151	12	19	21						4
5				40	19	80	21						5
6				59	20	33	31						6
7				69	25	29	29						7
8				35	30	35	56						8
9				73	43	25	41						9
10				83	49	25	64						10
11				66	39	37	67						11
12				48	22	46	27						12
13				89	21	41	18						13
14				85	19	34	38						14
15				86	46	34							15
16				72	39	36	40						16
17				47	18	30	19						17
18				36	24	19	47						18
19				27	42	32	29						19
20				36	43	38	24						20
21				52	40	32	28						21
22				36	29	31	22						22
23				41	21	49	13						23
24				33	16	53	13						24
25				53	16	41	18						25
26				32	18	32	29						26
27				6	25	31	27						27
28				38	20	31	27						28
29				22	10	10	34						29
30				31	16	36	78						30
31					22		75						31

MONTHLY SUMMARIES

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
AMN				63	26	36	34					
NO.	0	0	0	30	31	30	30	0	0	0	0	0
MAX				162	49	80	78					

	QUARTER 1	QUARTER 2	QUARTER 3	QUARTER 4
AMN		41	34	
NO.	0	91	30	0
MAX		162	78	
S.D		9.036	7.575	

	YEAR
AMN	40
NO.	121
MAX	162
S.D	6.766

*----VALUE IS NOT TRULY REPRESENTATIVE DUE TO INSUFFICIENT DATA.

```
                          ENVIRONMENTAL MONITORING SYSTEMS LABORATORY
YEAR:  1981               STATISTICAL AND TECHNICAL ANALYSIS BRANCH                FED REP GERMANY
                                                                                   LANGENBRUGGE
                                SUSPENDED  PARTICULA  1110175                      BUNDESSTELLE FUR UMWELTANGELEG
                                ______________
                                                                                   (GE6000101Q08)
                          DAILY DATA LISTING OF  24-HOUR DATA
                          CONCENTRATION IN UG/CU METER (25 C)
                          HI-VOL 20M CUT  GRAVIMETRIC

                                                  M O N T H
DAY                                                                                                    DAY
        JAN     FEB     MAR     APR     MAY     JUN     JUL     AUG     SEP     OCT     NOV     DEC
  1                             133      35      45      49                                              1
  2                             110      23      89      46                                              2
  3                             117      16      68      54                                              3
  4                              74      37      38      40                                              4
  5                              99      37      43      34                                              5
  6                              82      42      35      30                                              6
  7                             147      60      31      43                                              7
  8                             122      91      32      64                                              8
  9                              65      90      38      77                                              9
 10                              74     101      49     108                                             10
 11                             126     142      47                                                     11
 12                              95      88      34                                                     12
 13                              52     113      22      53                                             13
 14                              35     140      46      68                                             14
 15                              41      77      29      26                                             15
 16                              30              27      64                                             16
 17                              20              17      18                                             17
 18                              24      27      28      18                                             18
 19                              52      67      18      23                                             19
 20                              41      69      21      28                                             20
 21                              65     123      15      30                                             21
 22                              31      77      27      31                                             22
 23                              17      35      28      26                                             23
 24                              20      75      32      27                                             24
 25                              73      31      47      32                                             25
 26                              82      33      58      38                                             26
 27                              71      32      43      23                                             27
 28                              38      25      59      22                                             28
 29                              31      20      54      33                                             29
 30                              15      45      29      25                                             30
 31                                      62              32                                             31
____ _________________________________________MONTHLY SUMMARIES________________________________________
AMN                              66      63      38      40
NO.      0       0       0       30      29      30      29       0       0       0       0       0
MAX                             147     142      89     108
_______________________________________________________________________________________________________
!      QUARTER 1           !      QUARTER 2          !      QUARTER 3           !      QUARTER 4       !
!AMN                       !AMN      56              !AMN     40                !AMN                   !
!NO.         0             !NO.      89              !NO.     29                !NO.         0         !
!MAX                       !MAX     147              !MAX    108                !MAX                   !
!S.D                       !S.D   4.024              !S.D   .457                !S.D                   !
_______________________________________________________________________________________________________
                                            !  YEAR    !
                                            !AMN    52 !
                                            !NO.   118 !
                                            !MAX   147 !
                                            !S.D 1.869 !
                                            ___________

*----VALUE IS NOT TRULY REPRESENTATIVE DUE TO  INSUFFICIENT DATA.
```

YEAR: 1981

ENVIRONMENTAL MONITORING SYSTEMS LABORATORY
STATISTICAL AND TECHNICAL ANALYSIS BRANCH

SUSPENDED PARTICULA 1110175

FED REP GERMANY
SCHAUINSLAND
BUNDESSTELLE FUR UMWELTANGELEG

(GE9000101Q08)

DAILY DATA LISTING OF 24-HOUR DATA
CONCENTRATION IN UG/CU METER (25 C)
HI-VOL 20M CUT GRAVIMETRIC

M O N T H

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1				89	14	44	43						1
2				110	31	94	51						2
3				161	36	73	19						3
4				164	9	13	13						4
5				55	14	23	15						5
6				39	17	28	17						6
7				57	10	28	42						7
8				71	23	26	52						8
9				58	37	23	63						9
10				42	55	14	57						10
11				46	13	26	49						11
12				37	23	24	30						12
13				60	13	45	17						13
14				82	21	41	14						14
15				96	23	28	34						15
16				78	22	37	29						16
17				41	9	32	24						17
18				37	30	15	17						18
19				38	31	35	17						19
20				34	42	38	13						20
21				71	51	24	28						21
22				74	16	22	10						22
23				65	26	56	28						23
24				66	12	51	10						24
25				58	7	43	9						25
26				24	6	21	19						26
27				16	8	37	17						27
28				30	13	32	34						28
29				31	9	14	20						29
30				14	16	27	41						30
31					32		57						31

MONTHLY SUMMARIES

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
AMN				61	22	34	29					
NO.	0	0	0	30	31	30	31	0	0	0	0	0
MAX				164	55	94	63					

	QUARTER 1	QUARTER 2	QUARTER 3	QUARTER 4
AMN		39	29	
NO.	0	91	31	0
MAX		164	63	
S.D		9.219	6.100	

	YEAR
AMN	36
NO.	122
MAX	164
S.D	6.809

*----VALUE IS NOT TRULY REPRESENTATIVE DUE TO INSUFFICIENT DATA.

YEAR: 1981

ENVIRONMENTAL MONITORING SYSTEMS LABORATORY
STATISTICAL AND TECHNICAL ANALYSIS BRANCH

FED REP GERMANY

SUSPENDED PARTICULA 1110175

(GE9500101Q08)

DAILY DATA LISTING OF 24-HOUR DATA
CONCENTRATION IN UG/CU METER (25 C)
HI-VOL 20M CUT GRAVIMETRIC

M O N T H

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1													1
2													2
3							52						3
4							47						4
5							49						5
6							41						6
7							53						7
8							71						8
9							127						9
10							107						10
11							67						11
12													12
13							28						13
14							43						14
15							61						15
16							32						16
17							24						17
18							21						18
19							28						19
20							39						20
21							37						21
22							34						22
23							59						23
24							36						24
25							47						25
26							38						26
27							83						27
28							39						28
29							24						29
30							31						30
31							54						31

MONTHLY SUMMARIES

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
AMN							49					
NO.	0	0	0	0	0	0	28	0	0	0	0	0
MAX							127					

	QUARTER 1	QUARTER 2	QUARTER 3	QUARTER 4
!AMN			49	
!NO.	0	0	28	0
!MAX			127	
!S.D			4.496	

	YEAR
!AMN	49
!NO.	28
!MAX	127
!S.D	4.496

*----VALUE IS NOT TRULY REPRESENTATIVE DUE TO INSUFFICIENT DATA.

```
                                   ENVIRONMENTAL MONITORING SYSTEMS LABORATORY
YEAR:  1981                         STATISTICAL AND TECHNICAL ANALYSIS BRANCH
                                                                                        HUNGARY
                                                                                        KECSKEMET
                                      SUSPENDED  PARTICULA  1110175                     KOMLOSC TELEP, KECSKEMET HUNGA
                                      _______________
                                                                                        (HU7000101Q08)
                                   DAILY DATA LISTING OF  24-HOUR DATA
                                   CONCENTRATION IN UG/CU METER (25 C)
                                   HI-VOL 20M CUT  GRAVIMETRIC

                                              M O N T H
DAY                                                                                                   DAY
     JAN      FEB      MAR      APR      MAY      JUN      JUL      AUG      SEP      OCT      NOV      DEC
 1                              102       69                                                           1
 2                                                                                                     2
 3                                                                                     57       73     3
 4                                                                     60       23                     4
 5                                                            70                                       5
 6                                                22       66                                          6
 7                              119       78                                                           7
 8                                                                                                     8
 9                                                                                     59       18     9
10                                                                     59       64                    10
11                                                            43                                      11
12                                                78       58                                         12
13                               89       38                                                          13
14                                                                                                    14
15                                                                                     37       57    15
16                                                                     51       70                    16
17                                                            57                                      17
18                                                63       80                                         18
19                              106       60                                                          19
20                                                                                                    20
21                                                                                     85       68    21
22                                                                     50       48                    22
23                                                            28                                      23
24                                                34       67                                         24
25                               72       69                                                          25
26                                                                                                    26
27                                                                                     51             27
28                                                                    101       29                    28
29                                                            49                                      29
30                                                59       97                                         30
31                                        48                                                          31
__________________________________________MONTHLY SUMMARIES__________________________________________
AMN                              98       60      51       74       49       64       47       58       54
NO.    0        0        0        5        6       5        5        5        5        5        5        4
MAX                             119       78      78       97       70      101       70       85       73
______________________________________________________________________________________________________
!        QUARTER 1          !        QUARTER 2         !        QUARTER 3         !        QUARTER 4       !
!AMN                        !AMN          69           !AMN          62           !AMN          53         !
!NO.          0             !NO.          16           !NO.          15           !NO.          14         !
!MAX                        !MAX         119           !MAX         101           !MAX          85         !
!S.D                        !S.D       6.560           !S.D       9.231           !S.D       9.831         !
______________________________________________________________________________________________________
                                          !   YEAR   !
                                          !AMN    62 !
                                          !NO.    45 !
                                          !MAX   119 !
                                          !S.D 2.800 !
                                          ___________
*----VALUE IS NOT TRULY REPRESENTATIVE DUE TO  INSUFFICIENT DATA.
```

```
                                ENVIRONMENTAL MONITORING SYSTEMS LABORATORY
                                 STATISTICAL AND TECHNICAL ANALYSIS BRANCH
YEAR:  1981                                                                               INDONESIA
                                                                                          CILENUG
                                    SUSPENDED  PARTICULA  1110175
                                    ________

                                                                                          (ID2000101Q08)
                                DAILY DATA LISTING OF  24-HOUR DATA
                                CONCENTRATION IN UG/CU METER (25 C)
                                HI-VOL 20M CUT  GRAVIMETRIC

                                             M O N T H
DAY                                                                                                  DAY
      JAN      FEB      MAR      APR      MAY      JUN      JUL      AUG      SEP      OCT      NOV      DEC
 1                                                  86       71                                          1
 2                                74       62                                                            2
 3                                                                                                       3
 4                                                                                                       4
 5                                                                                                       5
 6                                                                                                       6
 7                                                  87       92                                          7
 8                                54       67                                                            8
 9                                                                                                       9
10                                                                                                      10
11                                                                                                      11
12                                                                                                      12
13                                                  78      126                                         13
14                                82      111                                                           14
15                       63                                                                             15
16                                                                                                      16
17                                                                                                      17
18                                                                                                      18
19                                                 118       57                                         19
20                                         63                                                           20
21                      116                                                                             21
22                                                                                                      22
23                                41                                                                    23
24                                                                                                      24
25                                                  69       66                                         25
26                                82      117                                                           26
27                       77                                                                             27
28                                                                                                      28
29                                                                                                      29
30                                                                                                      30
31                                                           81                                         31
____________________________________________MONTHLY SUMMARIES_________________________________________
AMN                      86       67       84       88       82
NO.     0        0        3        5        5        5        6        0        0        0        0        0
MAX                     116       82      117      118      126
_______________________________________________________________________________________________________
!       QUARTER 1            !       QUARTER 2            !       QUARTER 3            !       QUARTER 4       !
!AMN         86              !AMN         80              !AMN         82              !AMN                   !
!NO.          3              !NO.         15              !NO.          6              !NO.          0        !
!MAX        116              !MAX        118              !MAX        126              !MAX                   !
!S.D      7.583              !S.D      2.303              !S.D      4.704              !S.D                   !
_______________________________________________________________________________________________________
                                                 !  YEAR   !
                                                 !AMN    81 !
                                                 !NO.    24 !
                                                 !MAX   126 !
                                                 !S.D 2.500 !
                                                 ___________

*----VALUE IS NOT TRULY REPRESENTATIVE DUE TO  INSUFFICIENT DATA.
```

YEAR: 1981

ENVIRONMENTAL MONITORING SYSTEMS LABORATORY
STATISTICAL AND TECHNICAL ANALYSIS BRANCH

INDONESIA
JAKARTA

SUSPENDED PARTICULA 1110175

(ID6000101Q08)

DAILY DATA LISTING OF 24-HOUR DATA
CONCENTRATION IN UG/CU METER (25 C)
HI-VOL 20M CUT GRAVIMETRIC

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	98	114					123						1
2				72	73								2
3			148										3
4											80	73	4
5									167	141			5
6								86					6
7	76	84					130						7
8				11	104								8
9													9
10			103								88	85	10
11										107			11
12								159	150				12
13	115	62					209						13
14				102	120								14
15			92										15
16											63	96	16
17										239			17
18								158	140				18
19	183						109						19
20					88								20
21			95										21
22											80	153	22
23				79						107			23
24								173	99				24
25	144						116						25
26				127	143								26
27			85										27
28											71	113	28
29									115	135			29
30								157					30
31							175						31

MONTHLY SUMMARIES

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
AMN	123	87	104	78	106		144	147	134	146	76	104
NO.	5	3	5	5	5	0	6	5	5	5	5	5
MAX	183	114	148	127	143		209	173	167	239	88	153

	QUARTER 1	QUARTER 2	QUARTER 3	QUARTER 4
!AMN	107	92	142	109
!NO.	13	10	16	15
!MAX	183	143	209	239
!S.D	3.532	6.996	2.545	4.987

	YEAR
!AMN	115
!NO.	54
!MAX	239
!S.D	.754

*----VALUE IS NOT TRULY REPRESENTATIVE DUE TO INSUFFICIENT DATA.

```
                                    ENVIRONMENTAL MONITORING SYSTEMS LABORATORY
YEAR:  1981                          STATISTICAL AND TECHNICAL ANALYSIS BRANCH
                                                                                               INDONESIA
                                                                                               JAKARTA
                                              SUSPENDED  PARTICULA  1110175
                                              ___________

                                     DAILY DATA LISTING OF  24-HOUR DATA                       (ID6000102Q08)
                                     CONCENTRATION IN UG/CU METER (25 C)
                                     HI-VOL 20M CUT  GRAVIMETRIC

                                                    M O N T H
DAY
      JAN       FEB       MAR       APR       MAY       JUN       JUL                                                 DAY
 1              227                                     369       375       AUG       SEP       OCT       NOV       DEC
 2                                  200       191                                                                    1
 3                        257                                                                                        2
 4                                                                                                                   3
 5                                                                                                                   4
 6                                                                          257       485                            5
 7    233       238                                     201       456                                                6
 8                                  257       300                                                                    7
 9                                                                                                                   8
10                        335                                                                                        9
11                                                                                                                  10
12                                                                                    267                           11
13    348       260                                     315       219       359       408                           12
14                                  253       276                                                                   13
15                        188                                                                                       14
16                                                                                                                  15
17                                                                                                                  16
18                                                                                    593                           17
19    418       185                                     392       288       369       969                           18
20                                            251                                                                   19
21                        281                                                                                       20
22                                                                                                                  21
23                                  224                                                                             22
24                                                                                    438                           23
25    379       235                                     270        71                 415                           24
26                                  349       349                                                                   25
27                        362                                                                                       26
28                                                                                                                  27
29                                                                                                                  28
30                                                                          460       382                           29
31                                                                407                                               30
                                                                                                                    31
_____________________________________________MONTHLY SUMMARIES______________________________________________________
AMN   344       229       285       257       273       309       282       378       502       433
NO.     4         5         5         5         5         5         5         3         5         5       0       0
MAX   418       260       362       349       349       392       456       407       969       593
____________________________________________________________________________________________________________________
!       QUARTER 1                 !       QUARTER 2                 !       QUARTER 3             !       QUARTER 4        !
!AMN          282                 !AMN          280                 !AMN      389                 !AMN      433            !
!NO.           14                 !NO.           15                 !NO.       13                 !NO.        5            !
!MAX          418                 !MAX          392                 !MAX      969                 !MAX      593            !
!S.D        3.500                 !S.D        4.045                 !S.D    5.436                 !S.D     .927            !
____________________________________________________________________________________________________________________
                                                  !   YEAR    !
                                                  !AMN   327  !
                                                  !NO.    47  !
                                                  !MAX   969  !
                                                  !S.D 6.731  !
                                                  ____________
K----VALUE IS NOT TRULY REPRESENTATIVE DUE TO  INSUFFICIENT DATA.
```

YEAR: 1981

ENVIRONMENTAL MONITORING SYSTEMS LABORATORY
STATISTICAL AND TECHNICAL ANALYSIS BRANCH

INDONESIA
JAKARTA

SUSPENDED PARTICULA 1110175

(ID6000103Q08)

DAILY DATA LISTING OF 24-HOUR DATA
CONCENTRATION IN UG/CU METER (25 C)
HI-VOL 20M CUT GRAVIMETRIC

M O N T H

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1		287				519	427						1
2				337	393								2
3			204										3
4											270	508	4
5									449	462			5
6								354					6
7	328	250				391	585						7
8					394								8
9													9
10			316								241	489	10
11										334			11
12								469	502				12
13	311	205					526						13
14				284	351	393							14
15													15
16											242	607	16
17										581			17
18								705	465				18
19	615	492					155						19
20					422	557							20
21													21
22											417	617	22
23				390						597			23
24								587	480				24
25	251	238					606						25
26				398	338	436							26
27			456										27
28											247		28
29									296				29
30								371					30
31							286						31

MONTHLY SUMMARIES

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
AMN	376	294	325	352	380	459	431	497	439	493	283	555
NO.	4	5	3	4	5	5	6	5	5	4	5	4
MAX	615	492	456	398	422	557	606	705	502	597	417	617

	QUARTER 1	QUARTER 2	QUARTER 3	QUARTER 4
!AMN	329	400	454	432
!NO.	12	14	16	13
!MAX	615	557	705	617
!S.D	7.294	.494	8.912	9.225

	YEAR
!AMN	408
!NO.	55
!MAX	705
!S.D	.238

*----VALUE IS NOT TRULY REPRESENTATIVE DUE TO INSUFFICIENT DATA.

YEAR: 1981

ENVIRONMENTAL MONITORING SYSTEMS LABORATORY
STATISTICAL AND TECHNICAL ANALYSIS BRANCH

INDONESIA
JAKARTA

SUSPENDED PARTICULA 1110175

(ID6000104Q08)

DAILY DATA LISTING OF 24-HOUR DATA
CONCENTRATION IN UG/CU METER (25 C)
HI-VOL 20M CUT GRAVIMETRIC

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	404	417				502	340						1
2				374	388								2
3			439										3
4											500	483	4
5									425	459			5
6								3353					6
7	359	382				655	453						7
8				555	551								8
9													9
10			457								427	601	10
11									459	188			11
12								3984					12
13	357	374				420	471						13
14				465	335								14
15			361										15
16											625		16
17									547	630			17
18								4155					18
19		479				604	329						19
20	525				366								20
21			334										21
22											456	695	22
23				395					496	462			23
24								4719					24
25		415				421	539						25
26	426			534	421								26
27			487										27
28											454		28
29									490	498			29
30								3706					30
31							406						31

MONTHLY SUMMARIES

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
AMN	414	413	416	465	412	521	423	3983	483	448	492	593
NO.	5	5	5	5	5	5	6	5	5	5	5	3
MAX	525	479	487	555	551	655	539	4719	547	630	625	695

	QUARTER 1	QUARTER 2	QUARTER 3	QUARTER 4
AMN	414	466	1554	498
NO.	15	15	16	13
MAX	525	655	4719	695
S.D	5.248	5.918	2.734	5.907

	YEAR
AMN	755
NO.	59
MAX	4719
S.D	3.796

*----VALUE IS NOT TRULY REPRESENTATIVE DUE TO INSUFFICIENT DATA.

YEAR: 1981

ENVIRONMENTAL MONITORING SYSTEMS LABORATORY
STATISTICAL AND TECHNICAL ANALYSIS BRANCH

INDONESIA
JAKARTA

SUSPENDED PARTICULA 1110175

(ID6000105Q08)

DAILY DATA LISTING OF 24-HOUR DATA
CONCENTRATION IN UG/CU METER (25 C)
HI-VOL 20M CUT GRAVIMETRIC

M O N T H

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	87	109				184	131						1
2				104									2
3													3
4											108	94	4
5										157			5
6								393	175				6
7	75	83					150						7
8				117									8
9													9
10											70	92	10
11										101			11
12								157	201				12
13	291	58				128	169						13
14													14
15			93										15
16											66	120	16
17										253			17
18								161	264				18
19	193	88				177	109						19
20													20
21			160										21
22											99	166	22
23				92						125			23
24								156	120				24
25	137	125				114	133						25
26				109									26
27			113										27
28											80	246	28
29										156			29
30								157	139				30
31							201						31

MONTHLY SUMMARIES

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
AMN	157	93	122	106		151	149	205	180	158	85	144
NO.	5	5	3	4	0	4	6	5	5	5	5	5
MAX	291	125	160	117		184	201	393	264	253	108	246

	QUARTER 1	QUARTER 2	QUARTER 3	QUARTER 4
!AMN	124	128	176	129
!NO.	13	8	16	15
!MAX	291	184	393	253
!S.D	2.218	3.988	8.859	7.750

	YEAR
!AMN	142
!NO.	52
!MAX	393
!S.D	2.482

*----VALUE IS NOT TRULY REPRESENTATIVE DUE TO INSUFFICIENT DATA.

```
                              ENVIRONMENTAL MONITORING SYSTEMS LABORATORY
YEAR:  1981                    STATISTICAL AND TECHNICAL ANALYSIS BRANCH                INDONESIA
                                                                                        JAKARTA
                                   SUSPENDED  PARTICULA  1110175
                                   -----------------
                                                                                        (ID6000106Q08)
                              DAILY DATA LISTING OF  24-HOUR DATA
                              CONCENTRATION IN UG/CU METER (25 C)
                              HI-VOL 20M CUT  GRAVIMETRIC

                                            M O N T H
DAY                                                                                                  DAY
          JAN     FEB     MAR     APR     MAY     JUN     JUL     AUG     SEP     OCT     NOV     DEC
  1       104      83                             106      77                                          1
  2                                50       5                                                          2
  3                        89                                                                          3
  4                                                                                                    4
  5                                                                                                    5
  6                                                                                                    6
  7        57      78                              66      95                                          7
  8                                68      57                                                          8
  9                                                                                                    9
 10                       117                                                                         10
 11                                                                                                   11
 12                                                               177                                 12
 13        73      64                              62     122                                         13
 14                                77      70                                                         14
 15                                                                                                   15
 16                                                                                                   16
 17                                                                                                   17
 18                                                               135                                 18
 19       109      96                              86      63                                         19
 20                                       396                                                         20
 21                        54                                                                         21
 22                                                                                                   22
 23                                17                                                                 23
 24                                                                99                                 24
 25        93      73                              96                                                 25
 26                               113                                                                 26
 27                        49                                                                         27
 28                                                                                                   28
 29                                                                                                   29
 30                                                               104                                 30
 31                                                                                                   31
_______________________________________________MONTHLY SUMMARIES_____________________________________
AMN        87      79      77      65     132      83      89     129
NO.         5       5       4       5       4       5       4       4       0       0       0       0
MAX       109      96     117     113     396     106     122     177
_____________________________________________________________________________________________________
!     QUARTER 1              !     QUARTER 2              !     QUARTER 3              !     QUARTER 4        !
!AMN        81               !AMN        91               !AMN       109               !AMN                   !
!NO.        14               !NO.        14               !NO.         8               !NO.         0         !
!MAX       117               !MAX       396               !MAX       177               !MAX                   !
!S.D     1.203               !S.D     2.830               !S.D     5.733               !S.D                   !
_____________________________________________________________________________________________________
                                           !   YEAR   !
                                           !AMN    91 !
                                           !NO.    36 !
                                           !MAX   396 !
                                           !S.D 1.112 !
                                            ----------
     *----VALUE IS NOT TRULY REPRESENTATIVE DUE TO  INSUFFICIENT DATA.
```

ENVIRONMENTAL MONITORING SYSTEMS LABORATORY
STATISTICAL AND TECHNICAL ANALYSIS BRANCH

YEAR: 1981

INDONESIA
EL TARI, KUPANG TIMOR ISLAND,I
(ID7000101Q08)

SUSPENDED PARTICULA 1110175

DAILY DATA LISTING OF 24-HOUR DATA
CONCENTRATION IN UG/CU METER (25 C)
HI-VOL 20M CUT GRAVIMETRIC

M O N T H

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	38												1
2				5	204								2
3			42										3
4													4
5													5
6								33					6
7	45												7
8				2	3								8
9													9
10			31										10
11													11
12								33	2				12
13	41												13
14				30	22								14
15			23										15
16													16
17									12				17
18								24					18
19	70												19
20					96								20
21			16										21
22													22
23				3					7				23
24								21					24
25	58												25
26				227	908								26
27			62										27
28													28
29									16				29
30													30
31													31

MONTHLY SUMMARIES

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
AMN	51		35	53	247			28	9			
NO.	5	0	5	5	5	0	0	4	4	0	0	0
MAX	70		62	227	908			33	16			

	QUARTER 1		QUARTER 2		QUARTER 3		QUARTER 4
!AMN	43	!AMN	150	!AMN	18	!AMN	
!NO.	10	!NO.	10	!NO.	8	!NO.	0
!MAX	70	!MAX	908	!MAX	33	!MAX	
!S.D	7.098	!S.D	9.528	!S.D	1.307	!S.D	

	YEAR
!AMN	74
!NO.	28
!MAX	908
!S.D	2.038

*----VALUE IS NOT TRULY REPRESENTATIVE DUE TO INSUFFICIENT DATA.

YEAR: 1981

ENVIRONMENTAL MONITORING SYSTEMS LABORATORY
STATISTICAL AND TECHNICAL ANALYSIS BRANCH

INDONESIA
MANADO

SUSPENDED PARTICULA 1110175

(ID7300107Q08)

DAILY DATA LISTING OF 24-HOUR DATA
CONCENTRATION IN UG/CU METER (25 C)
HI-VOL 20M CUT GRAVIMETRIC

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	30	33					40						1
2				33	36								2
3			60										3
4													4
5									141				5
6								127					6
7	108	43				42							7
8				36	73								8
9													9
10			70										10
11													11
12								139	314				12
13	41	87				49	38						13
14				70	64								14
15			49										15
16													16
17													17
18								59	498				18
19	33	49				53	37						19
20													20
21			59										21
22													22
23				56									23
24								114	545				24
25	35	48				32	62						25
26				80	96								26
27			33										27
28													28
29													29
30													30
31													31

MONTHLY SUMMARIES

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
AMN	49	52	54	55	67	44	44	110	375			
NO.	5	5	5	5	4	4	4	4	4	0	0	0
MAX	108	87	70	80	96	53	62	139	545			

	QUARTER 1	QUARTER 2	QUARTER 3	QUARTER 4
!AMN	52	56	176	
!NO.	15	13	12	0
!MAX	108	96	545	
!S.D	2.226	.194	8.772	

	YEAR
!AMN	90
!NO.	40
!MAX	545
!S.D	2.067

*----VALUE IS NOT TRULY REPRESENTATIVE DUE TO INSUFFICIENT DATA.

```
                      ENVIRONMENTAL MONITORING SYSTEMS LABORATORY
YEAR:  1981            STATISTICAL AND TECHNICAL ANALYSIS BRANCH                INDONESIA
                                                                                TANGERANG
                            SUSPENDED  PARTICULA  1110175
                            _______________
                                                                                (ID9000101Q08)
                      DAILY DATA LISTING OF  24-HOUR DATA
                      CONCENTRATION IN UG/CU METER (25 C)
                      HI-VOL 20M CUT  GRAVIMETRIC

                                      M O N T H
DAY                                                                                        DAY
       JAN    FEB    MAR    APR    MAY    JUN    JUL    AUG    SEP    OCT    NOV    DEC
  1    174    219                         108                                                1
  2                         103     79                                                       2
  3                  105                                                                     3
  4                                                                                          4
  5                                                                                          5
  6                                                     126                                  6
  7    238    308                         135                                                7
  8                          41                                                              8
  9                                                                                          9
 10                  127                                                                    10
 11                                                                                         11
 12                                                     175                                 12
 13    129    258                          92    142                                        13
 14                          39    167                                                      14
 15                  159                                                                    15
 16                                                                                         16
 17                                                                                         17
 18                                                     192                                 18
 19    254                                 49     92                                        19
 20                                104                                                      20
 21                  121                                                                    21
 22                                                                                         22
 23                          99                                                             23
 24                                                     141                                 24
 25    247    107                                 74                                        25
 26                                 99                                                      26
 27                  141                                                                    27
 28                                                                                         28
 29                                                                                         29
 30                                                     181                                 30
 31                                              108                                        31
___________________________________________MONTHLY SUMMARIES______________________________
AMN    209    223    131     71    112     96    104    163
NO.      5      4      5      4      4      4      4      5      0      0      0      0
MAX    254    308    159    103    167    135    142    192
__________________________________________________________________________________________
!       QUARTER 1           !       QUARTER 2           !       QUARTER 3           !       QUARTER 4          !
!AMN          185           !AMN           93           !AMN          137           !AMN                       !
!NO.           14           !NO.           12           !NO.            9           !NO.            0          !
!MAX          308           !MAX          167           !MAX          192           !MAX                       !
!S.D        7.339           !S.D        7.646           !S.D         .994           !S.D                       !
__________________________________________________________________________________________
                                           !   YEAR    !
                                           !AMN    141 !
                                           !NO.     35 !
                                           !MAX    308 !
                                           !S.D  4.797 !
                                           _____________

*----VALUE IS NOT TRULY REPRESENTATIVE DUE TO  INSUFFICIENT DATA.
```

```
                                           ENVIRONMENTAL MONITORING SYSTEMS LABORATORY
                                            STATISTICAL AND TECHNICAL ANALYSIS BRANCH
YEAR:  1981                                                                                           NETHERLANDS
                                                                                                      AMSTERDAM
                                                SUSPENDED  PARTICULA  1110175
                                                        ____________
                                                                                                      (NL1000101Q08)
                                           DAILY DATA LISTING OF  24-HOUR DATA
                                           CONCENTRATION IN UG/CU METER (25 C)
                                           HI-VOL 20M CUT  GRAVIMETRIC

                                                        M O N T H
DAY                                                                                                                        DAY
      JAN       FEB       MAR       APR       MAY       JUN       JUL       AUG       SEP       OCT       NOV       DEC
 1     17        64        45                                                                                                1
 2     16        49        55                                                                                                2
 3     19        21        69                                                                                                3
 4     13        15        33                                                                                                4
 5     12        18        83                                                                                                5
 6     12        36        67                                                                                                6
 7     15        33        29                                                                                                7
 8     70        23        25                                                                                                8
 9     24        39        20                                                                                                9
10     19        13                                                                                                         10
11     21         9                                                                                                         11
12     23        47        41                                                                                               12
13     21        28        30                                                                                               13
14     18        81         7                                                                                               14
15     16        90        21                                                                                               15
16     24        89        10                                                                                               16
17     33        34        13                                                                                               17
18     37        22                                                                                                         18
19     29        25                                                                                                         19
20     43        43                                                                                                         20
21     80        72                                                                                                         21
22     97                                                                                                                   22
23     73       143                                                                                                         23
24     41                                                                                                                   24
25     21       168                                                                                                         25
26     35       158                                                                                                         26
27     63       158                                                                                                         27
28     27       131                                                                                                         28
29     82                                                                                                                   29
30     96                                                                                                                   30
31     95                                                                                                                   31
_______________________________________________________MONTHLY SUMMARIES______________________________________________________
AMN    38        62        37
NO.    31        26        15         0         0         0         0         0         0         0         0         0
MAX    97       168        83
______________________________________________________________________________________________________________________________
!        QUARTER 1             !        QUARTER 2             !        QUARTER 3              !        QUARTER 4             !
!AMN           47              !AMN                           !AMN                            !AMN                           !
!NO.           72              !NO.           0               !NO.           0                !NO.           0               !
!MAX          168              !MAX                           !MAX                            !MAX                           !
!S.D        8.236              !S.D                           !S.D                            !S.D                           !
______________________________________________________________________________________________________________________________
                                                        !   YEAR    !
                                                        !AMN    47  !
                                                        !NO.    72  !
                                                        !MAX   168  !
                                                        !S.D 8.236  !
                                                        ____________

 *----VALUE IS NOT TRULY REPRESENTATIVE DUE TO  INSUFFICIENT DATA.
```

```
                                        ENVIRONMENTAL MONITORING SYSTEMS LABORATORY
YEAR:  1981                              STATISTICAL AND TECHNICAL ANALYSIS BRANCH
                                                                                       NETHERLANDS
                                                                                       WITTEVEEN
                                              SUSPENDED  PARTICULA  1110175            C/O KNMI 3730 AE DE BILT NETHE
                                                    ___________
                                                                                       (NL8000101Q08)
                                        DAILY DATA LISTING OF  24-HOUR DATA
                                        CONCENTRATION IN UG/CU METER (25 C)
                                        HI-VOL 20M CUT  GRAVIMETRIC

                                                 M O N T H
DAY                                                                                                           DAY
          JAN      FEB      MAR      APR      MAY      JUN      JUL      AUG      SEP      OCT      NOV      DEC
   1                                            24       53       35       31       34       66       29       12    1
   2                                            20       56       43                34       53       29       25    2
   3                                  105       28       37       26       51       41       19       53       38    3
   4                                   36       28       40       27       87       52       23       33       10    4
   5                                   62       30       34       31      131       81       34       26        7    5
   6                                  103       48       32       34      117       91       31       13       15    6
   7                                  138       71       40       54       92      114       32       15       14    7
   8                                   88       55       31       90      117      112       35       14       27    8
   9                                  102       86       41      120       51      123       26       29       23    9
  10                                  106       87       63       70       30      130       20       76       50   10
  11                                  113      148       34       41                76       18       60       65   11
  12                                   75       94       17       40       35       65       13        7       31   12
  13                                   45       89       37       60       80                12       15       50   13
  14                                   52       35       43       34      112       33       17       15       65   14
  15                                   51       45       35       34       67                26       28       45   15
  16                                   44       46       26       51       22       44       77       58       88   16
  17                                   38       30       14       23       20       72       56       62       72   17
  18                                   33       42       18       13       55       59       45       28            18
  19                                   48       45       17       30       27       27       36       39      105   19
  20                                   29       60       17       30       12       17       14       36       75   20
  21                                   31       53       21       25       33       33       28       35      173   21
  22                                   18       30       25       39       24       38       43       28      202   22
  23                                   19       30       40       28       16       35       46       40      207   23
  24                                   33       22       43       31       17       37       62       15      131   24
  25                                   90       19       35       26       70       37       22       11       31   25
  26                                  102       27       22       34       17       31       33       25       33   26
  27                                   90       34       44       25       19       28       55       17       51   27
  28                                   29       31       19       24       16       31       32       11       57   28
  29                                   35       41       15       35       16       37       20       14       39   29
  30                                   12       48       40       16       17       75       20        9       27   30
  31                                            40                41       22                32                45   31
____________________________________________________MONTHLY SUMMARIES_____________________________________________
AMN                                    62       49       33       39       48       57       34       29       60
NO.         0        0        0        28       31       30       31       29       28       31       30       30
MAX                                   138      148       63      120      131      130       77       76      207
__________________________________________________________________________________________________________________
!      QUARTER 1          !           QUARTER 2     !           QUARTER 3     !           QUARTER 4         !
!AMN                      !AMN            48        !AMN            48        !AMN            41            !
!NO.          0           !NO.            89        !NO.            88        !NO.            91            !
!MAX                      !MAX           148        !MAX           131        !MAX           207            !
!S.D                      !S.D         9.238        !S.D         1.234        !S.D         6.256            !
__________________________________________________________________________________________________________________
                                                    !   YEAR    !
                                                    !AMN    45  !
                                                    !NO.   268  !
                                                    !MAX   207  !
                                                    !S.D 2.446  !
                                                    ____________

 *----VALUE IS NOT TRULY REPRESENTATIVE DUE TO  INSUFFICIENT DATA.
```

YEAR: 1981

ENVIRONMENTAL MONITORING SYSTEMS LABORATORY
STATISTICAL AND TECHNICAL ANALYSIS BRANCH

ROMANIA
SEMENIC
METEOROLOGICAL STATION SEMENIC

(R01000101Q08)

SUSPENDED PARTICULA 1110175

DAILY DATA LISTING OF 24-HOUR DATA
CONCENTRATION IN UG/CU METER (25 C)
HI-VOL 20M CUT GRAVIMETRIC

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1				61	31	57	39		55	54	13	31	1
2													2
3		28		100	25	67	88		81			48	3
4													4
5				20		61	78	64	76	14	40	29	5
6													6
7				12	38	38	25	33	17	13	50	55	7
8													8
9		14		118	23	43	29	24	28	50	15	16	9
10													10
11		11		55	29	34	33		30		37	23	11
12													12
13		16		64	14	79	40	65	46	35	17	26	13
14													14
15				63	22	20	44	41	44	29	41	19	15
16													16
17				29	33	35	17	29	30	54	62	12	17
18													18
19				31	55	54	103	28	28	67	54	6	19
20													20
21	43	32		40	73	29	104	19	72	10		9	21
22													22
23	17	17		11		29	106	90	26	43	57	32	23
24													24
25	43	49		52	25	75	46	80	67		34	21	25
26													26
27	35	35		26			125	36			13	34	27
28													28
29	64			47	22	76		52	22	24	25	11	29
30													30
31													31

MONTHLY SUMMARIES

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
AMN	40	25		49	33	50	63	47	44	36	35	25
NO.	5	8	0	15	12	14	14	12	14	11	13	15
MAX	64	49		118	73	79	125	90	81	67	62	55

	QUARTER 1	QUARTER 2	QUARTER 3	QUARTER 4
!AMN	31	44	52	31
!NO.	13	41	40	39
!MAX	64	118	125	67
!S.D	5.940	4.166	8.688	7.147

	YEAR
!AMN	41
!NO.	133
!MAX	125
!S.D	4.529

*----VALUE IS NOT TRULY REPRESENTATIVE DUE TO INSUFFICIENT DATA.

```
                                  ENVIRONMENTAL MONITORING SYSTEMS LABORATORY
YEAR:  1981                        STATISTICAL AND TECHNICAL ANALYSIS BRANCH
                                                                                      ROMANIA
                                                                                      FUNDATA
                                     SUSPENDED  PARTICULA  1110175                    METEOROLOGICAL STATION FUNDATA
                                          ________
                                                                                      (RO2000101Q08)
                                  DAILY DATA LISTING OF  24-HOUR DATA
                                  CONCENTRATION IN UG/CU METER (25 C)
                                  HI-VOL 20M CUT  GRAVIMETRIC

                                              M O N T H
DAY                                                                                                      DAY
     JAN     FEB     MAR     APR     MAY     JUN     JUL     AUG     SEP     OCT     NOV     DEC
 1   14                                                                                                    1
 2                                                                                                         2
 3   20                                                                                                    3
 4                                                                                                         4
 5   16                                                                                                    5
 6                                                                                                         6
 7   28                                                                                                    7
 8                                                                                                         8
 9   12                                                                                                    9
10                                                                                                        10
11   17                                                                                                   11
12                                                                                                        12
13   21                                                                                                   13
14                                                                                                        14
15   23                                                                                                   15
16                                                                                                        16
17   41                                                                                                   17
18                                                                                                        18
19   14                                                                                                   19
20                                                                                                        20
21   39                                                                                                   21
22                                                                                                        22
23   33                                                                                                   23
24                                                                                                        24
25                                                                                                        25
26                                                                                                        26
27                                                                                                        27
28                                                                                                        28
29                                                                                                        29
30                                                                                                        30
31                                                                                                        31
______________________________________________MONTHLY SUMMARIES____________________________________________
AMN  23
NO.  12       0       0       0       0       0       0       0       0       0       0       0
MAX  41
___________________________________________________________________________________________________________
!        QUARTER 1          !        QUARTER 2          !        QUARTER 3          !        QUARTER 4      !
!AMN           23           !AMN                        !AMN                        !AMN                    !
.NO.           12           !NO.          0             !NO.          0             !NO.          0         !
!MAX           41           !MAX                        !MAX                        !MAX                    !
!S.D        9.935           !S.D                        !S.D                        !S.D                    !
___________________________________________________________________________________________________________
                                                 !   YEAR    !
                                                 !AMN     23 !
                                                 !NO.     12 !
                                                 !MAX     41 !
                                                 !S.D  9.935 !
                                                 ____________

 *----VALUE IS NOT TRULY REPRESENTATIVE DUE TO  INSUFFICIENT DATA.
```

ENVIRONMENTAL MONITORING SYSTEMS LABORATORY
STATISTICAL AND TECHNICAL ANALYSIS BRANCH

YEAR: 1981

ROMANIA
TURIA
METEOROLOGICAL STATION TURIA

(RO6000101Q08)

SUSPENDED PARTICULA 1110175

DAILY DATA LISTING OF 24-HOUR DATA
CONCENTRATION IN UG/CU METER (25 C)
HI-VOL 20M CUT GRAVIMETRIC

M O N T H

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	23	93	26	65	29	33	61	82	45	20			1
2													2
3	15	56	19	38	27	26	70	61	18	32			3
4													4
5	12	31	72	68	10	54	23	45	39	35			5
6													6
7	33	60	57	55	16	69	28	58	44	70			7
8													8
9	17	28	80	75	18	51	22	61	57	43			9
10													10
11	52	33	23		24		53	45	35	25			11
12													12
13	10	66	16	63	20	32	42	38	34	28			13
14													14
15	36	70	32	43	34	58	46	32	70	22			15
16													16
17	38	33	37	30	47	15	54	72	54	42			17
18													18
19	20	43	14	24		30	64	41	41	58			19
20													20
21	52	28	60	43		15	31	70	37	42			21
22													22
23	41	30	51	38	59	38	44	37	29				23
24													24
25		55	70	22	54	30	72	27	33				25
26													26
27	45	43	59		45	43	10	23	64				27
28													28
29	22		32		38	46	30	50	40				29
30													30
31													31

MONTHLY SUMMARIES

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
AMN	30	48	43	47	32	39	43	49	43	38		
NO.	14	14	15	12	13	14	15	15	15	11	0	0
MAX	52	93	80	75	59	69	72	82	70	70		

	QUARTER 1	QUARTER 2	QUARTER 3	QUARTER 4
!AMN	40	39	45	38
!NO.	43	39	45	11
!MAX	93	75	82	70
!S.D	.173	6.959	6.728	5.411

	YEAR
!AMN	41
!NO.	138
!MAX	93
!S.D	7.867

*----VALUE IS NOT TRULY REPRESENTATIVE DUE TO INSUFFICIENT DATA.

ENVIRONMENTAL MONITORING SYSTEMS LABORATORY
STATISTICAL AND TECHNICAL ANALYSIS BRANCH

YEAR: 1981

ROMANIA
RARAU
METEOROLOGICAL STATION RARAU

(RO7000101Q08)

SUSPENDED PARTICULA 1110175

DAILY DATA LISTING OF 24-HOUR DATA
CONCENTRATION IN UG/CU METER (25 C)
HI-VOL 20M CUT GRAVIMETRIC

MONTH

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	10	39	8	30			53	55			26	8	1
2													2
3	7	25					52	25			11	12	3
4			36										4
5	10	9		87			24	46			45		5
6			27										6
7	20	17		33			21	51			11	8	7
8													8
9	11	22		92			46	56			7	5	9
10													10
11	7	13	9				78	30			11	4	11
12													12
13	8	28	12			44	50	44			11	15	13
14													14
15	14	29	10			27	39	27				11	15
16													16
17	9	29	29			17	55	23			24	18	17
18													18
19	7	30				15	50	36			10	14	19
20													20
21	8	21	31			9	20	49			6	19	21
22													22
23	55	21	28			34	31	32			31	7	23
24													24
25	26	9	43			21	45	19			30	6	25
26													26
27	20	30	30			28	9	14			23	19	27
28													28
29	5		16			37	10	66			8		29
30													30
31													31

MONTHLY SUMMARIES

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
AMN	14	23	23	61		26	39	38			18	11
NO.	15	14	12	4	0	9	15	15	0	0	14	13
MAX	55	39	43	92		44	78	66			45	19

	QUARTER 1	QUARTER 2	QUARTER 3	QUARTER 4
!AMN	20	36	39	15
!NO.	41	13	30	27
!MAX	55	92	78	45
!S.D	1.707	5.412	7.150	9.727

	YEAR
!AMN	26
!NO.	111
!MAX	92
!S.D	7.894

*----VALUE IS NOT TRULY REPRESENTATIVE DUE TO INSUFFICIENT DATA.

YEAR: 1981

ENVIRONMENTAL MONITORING SYSTEMS LABORATORY
STATISTICAL AND TECHNICAL ANALYSIS BRANCH

SUSPENDED PARTICULA 1110175

DAILY DATA LISTING OF 24-HOUR DATA
CONCENTRATION IN UG/CU METER (25 C)
HI-VOL 20M CUT GRAVIMETRIC

ROMANIA
STINA DE VALE
METEOROLOGICAL STATION STINA D

(RO8000101Q08)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1							76						1
2													2
3					25	62	69						3
4													4
5					25	46	40						5
6													6
7					19	27	36						7
8													8
9					31	38	29						9
10													10
11					37	34	58			27			11
12													12
13					23		53			34			13
14													14
15							60			26			15
16													16
17					58	38	50			39			17
18													18
19					53	20	41			61			19
20													20
21					42		36			68			21
22													22
23					63		38						23
24													24
25					54		48						25
26													26
27					64	29	50						27
28													28
29					35	39							29
30													30
31													31

MONTHLY SUMMARIES

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
AMN	0	0	0	0	41	37	49	0	0	43	0	0
NO.					13	9	14			6		
MAX					64	62	76			68		

	QUARTER 1		QUARTER 2		QUARTER 3		QUARTER 4
!AMN	0	!AMN	39	!AMN	49	!AMN	43
!NO.		!NO.	22	!NO.	14	!NO.	6
!MAX		!MAX	64	!MAX	76	!MAX	68
!S.D		!S.D	4.365	!S.D	3.456	!S.D	7.830

	YEAR
!AMN	43 !
!NO.	42 !
!MAX	76 !
!S.D	4.880 !

*----VALUE IS NOT TRULY REPRESENTATIVE DUE TO INSUFFICIENT DATA.

ENVIRONMENTAL MONITORING SYSTEMS LABORATORY
STATISTICAL AND TECHNICAL ANALYSIS BRANCH

YEAR: 1981

ROMANIA
PARING
METEOROLOGICAL STATION PARING

(RO9000101Q08)

SUSPENDED PARTICULA 1110175

DAILY DATA LISTING OF 24-HOUR DATA
CONCENTRATION IN UG/CU METER (25 C)
HI-VOL 20M CUT GRAVIMETRIC

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1											11		1
2													2
3	13			44									3
4													4
5	17			62							19		5
6													6
7	19			69							15		7
8													8
9				73							15		9
10													10
11	8			40									11
12													12
13	7			63							15		13
14													14
15											14		15
16													16
17	16			14							19		17
18													18
19	28			30							3		19
20													20
21	21			45							10		21
22													22
23	70			40							20		23
24													24
25	29			20							19		25
26													26
27	22										24		27
28													28
29	21										28		29
30													30
31													31
MONTHLY SUMMARIES													
AMN	22			45							16		
NO.	12	0	0	11	0	0	0	0	0	0	13	0	
MAX	70			73							28		

	QUARTER 1		QUARTER 2		QUARTER 3		QUARTER 4
!AMN	22	!AMN	45	!AMN		!AMN	16
!NO.	12	!NO.	11	!NO.	0	!NO.	13
!MAX	70	!MAX	73	!MAX		!MAX	28
!S.D	6.582	!S.D	9.577	!S.D		!S.D	6.369

	YEAR
!AMN	27
!NO.	36
!MAX	73
!S.D	9.151

*----VALUE IS NOT TRULY REPRESENTATIVE DUE TO INSUFFICIENT DATA.

YEAR: 1981

ENVIRONMENTAL MONITORING SYSTEMS LABORATORY
STATISTICAL AND TECHNICAL ANALYSIS BRANCH

SUSPENDED PARTICULA 1110175

SWITZERLAND
JUNGFRAUJOCH
HIGH ALTITUDE RESEARCH STATION

(SZ4000101Q08)

DAILY DATA LISTING OF 24-HOUR DATA
CONCENTRATION IN UG/CU METER (25 C)
HI-VOL 20M CUT GRAVIMETRIC

M O N T H

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1				2	1	36	8						1
2				2	12	36	8						2
3				7	12								3
4				7	3								4
5				7	3								5
6				7	3	6							6
7				14	3	6							7
8				14	9	6							8
9				12	9	7							9
10				12	3	7							10
11				8	3	5							11
12				8	3	5							12
13				7	3	2							13
14				7	6	2							14
15				13	6	8							15
16				13	4	8							16
17				6	4	5							17
18				6	4	5							18
19				6	4	2							19
20				6	12	2							20
21				9	12	4							21
22				9	6	4							22
23				8	6	8							23
24				8	3	8							24
25				10	3	6							25
26				10	2	6							26
27				6	2	2							27
28				6	2	2							28
29				4	2	3							29
30				4	9	3							30
31					9								31

MONTHLY SUMMARIES

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
AMN				8	5	7	8					
NO.	0	0	0	30	31	27	2	0	0	0	0	0
MAX				14	12	36	8					

	QUARTER 1	QUARTER 2	QUARTER 3	QUARTER 4
!AMN		7	8	
!NO.	0	88	2	0
!MAX		36	8	
!S.D		5.548		

	YEAR
!AMN	7
!NO.	90
!MAX	36
!S.D	5.488

*----VALUE IS NOT TRULY REPRESENTATIVE DUE TO INSUFFICIENT DATA.

YEAR: 1981

ENVIRONMENTAL MONITORING SYSTEMS LABORATORY
STATISTICAL AND TECHNICAL ANALYSIS BRANCH

SWITZERLAND
PAYERNE
AEROLOGICAL STATION

(SZ7000101Q08)

SUSPENDED PARTICULA 1110175

DAILY DATA LISTING OF 24-HOUR DATA
CONCENTRATION IN UG/CU METER (25 C)
HI-VOL 20M CUT GRAVIMETRIC

MONTH

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1				30	31	44	40	47	36				1
2				85	23	44	40	47	46				2
3				85	23	19	15	41	46				3
4				120	23	19	15	41	54				4
5				120	12	19	15	51	54				5
6				120	12	19	30	51	54				6
7				72	85	19	30	28	51				7
8				72	85	32	34	28	51				8
9				45	35	32	34	28	32				9
10				45	35	31	23	26	32				10
11				45	35	31	23	26	24				11
12				45	15	36	23	53	24				12
13				45	15	36	16	53	24				13
14				76	19	36	16	50	16				14
15				76	19	28	23	50	16				15
16				63	28	28	23	50	15				16
17				63	28	22	17	45	25				17
18				35	28	22	17	45	73				18
19				35	29	30	17	40	73				19
20				35	29	30	18	40	73				20
21				44	35	30	18	22	36				21
22				44	35		19	22	36				22
23				57	19		19	22	21				23
24				57	19		9	29	21				24
25				43	19		9	29	18				25
26				43	8	7	9	65	18				26
27				43	8	7	9	65	18				27
28				26	12	7	9		17				28
29				26	12	12	9		17				29
30				31	21	12	9		45				30
31					21		47						31
MONTHLY SUMMARIES													
AMN				58	26	25	20	41	36				
NO.	0	0	0	30	31	26	31	27	30	0	0	0	
MAX				120	85	44	47	65	73				

	QUARTER 1		QUARTER 2		QUARTER 3		QUARTER 4
!AMN		!AMN	37	!AMN	32	!AMN	
!NO.	0	!NO.	87	!NO.	88	!NO.	0
!MAX		!MAX	120	!MAX	73	!MAX	
!S.D		!S.D	4.880	!S.D	6.496	!S.D	

!	YEAR !
!AMN	34 !
!NO.	175 !
!MAX	120 !
!S.D	1.171 !

*----VALUE IS NOT TRULY REPRESENTATIVE DUE TO INSUFFICIENT DATA.

ENVIRONMENTAL MONITORING SYSTEMS LABORATORY
STATISTICAL AND TECHNICAL ANALYSIS BRANCH

YEAR: 1981

TUNISIA
THALA

SUSPENDED PARTICULA 1110175

(TS8000101Q08)

DAILY DATA LISTING OF 24-HOUR DATA
CONCENTRATION IN UG/CU METER (25 C)
HI-VOL 20M CUT GRAVIMETRIC

	MONTH												
DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1													1
2							32						2
3													3
4													4
5													5
6	0	7					31	71	21	54		25	6
7													7
8													8
9													9
10													10
11													11
12	37	26					30	56	88	21		44	12
13													13
14													14
15													15
16													16
17													17
18	5	75					113	44	32	16	96	161	18
19													19
20													20
21													21
22													22
23													23
24	26						114	23	100	11	43	10	24
25													25
26													26
27													27
28													28
29													29
30	13						67	42	30	20	10	71	30
31													31

MONTHLY SUMMARIES

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
AMN	16	36					64	47	54	24	50	62
NO.	5	3	0	0	0	0	6	5	5	5	3	5
MAX	37	75					114	71	100	54	96	161

	QUARTER 1		QUARTER 2		QUARTER 3		QUARTER 4
!AMN	24	!AMN		!AMN	56	!AMN	45
!NO.	8	!NO.	0	!NO.	16	!NO.	13
!MAX	75	!MAX		!MAX	114	!MAX	161
!S.D	4.395	!S.D		!S.D	2.367	!S.D	3.747

	YEAR
!AMN	45
!NO.	37
!MAX	161
!S.D	6.643

*----VALUE IS NOT TRULY REPRESENTATIVE DUE TO INSUFFICIENT DATA.

```
                                        ENVIRONMENTAL MONITORING SYSTEMS LABORATORY
YEAR:  1981                              STATISTICAL AND TECHNICAL ANALYSIS BRANCH
                                                                                                ZAMBIA
                                                                                                LUANGWA
                                              SUSPENDED  PARTICULA  1110175                     SAME AS 'A' ABOVE
                                                     __________
                                                                                                (ZA6000101Q08)
                                        DAILY DATA LISTING OF  24-HOUR DATA
                                        CONCENTRATION IN UG/CU METER (25 C)
                                        HI-VOL 20M CUT  GRAVIMETRIC

                                                    M O N T H
DAY                                                                                                         DAY
      JAN      FEB      MAR      APR      MAY      JUN      JUL      AUG      SEP      OCT      NOV      DEC
 1                                                                                                           1
 2                                                  24                                           21          2
 3                                                                                                           3
 4                                                                    33                                     4
 5                                                                                                           5
 6                                                           16                                              6
 7                                                                                                           7
 8                                                                                                    10     8
 9                                                                                               41          9
10                                                                    14                                    10
11                                                                                                          11
12                                                                                                          12
13                                                           48                                             13
14                                                                                                    11    14
15                                                  10                                                      15
16                                                                                                          16
17                                                                    39                                    17
18                                                                                                          18
19                                                                                                          19
20                                                           48                                             20
21                                                                                                          21
22                                                  12                         71                           22
23                                                                                                          23
24                                                                    46                                    24
25                                                                                                          25
26                                                                                                          26
27                                                           39                                             27
28                                                                             73                           28
29                                                  63                                                      29
30                                                                                                          30
31                                                                    44                                    31
AMN__________________________________________MONTHLY SUMMARIES_____________________________________________
                                                    27       38       35       72                31     11
NO.     0        0        0        0        0        4        4        5        2        0         2      2
MAX                                                 63       48       46       73                41     11
!         QUARTER 1              !         QUARTER 2           !         QUARTER 3           !         QUARTER 4        !
!AMN                             !AMN         27               !AMN         43               !AMN         21          !
!NO.            0                !NO.          4               !NO.         11               !NO.          4          !
!MAX                             !MAX         63               !MAX         73               !MAX         41          !
!S.D                             !S.D      4.275               !S.D      8.345               !S.D      4.598          !
___________________________________________________________________________________________________________________
                                                  !  YEAR    !
                                                  !AMN    35 !
                                                  !NO.    19 !
                                                  !MAX    73 !
                                                  !S.D  .387 !
                                                  ____________
*----VALUE IS NOT TRULY REPRESENTATIVE DUE TO  INSUFFICIENT DATA.
```

```
                             POLLUTANT - 11101 - SUSPENDED  PARTICULA
                             METHOD - 75 - HI-VOL 20M CUT  GRAVIMETRIC
                             UNITS -  01 - UG/CU METER (25 C)
                             SAMPLING INTERVAL - 7 - 24 HOUR DATA
                                                                                        ARITHMETIC    GEOMETRIC
                 YEAR   NUM  MIN   10   20   30   40   50   60   70   80   90   95   99  MAX  MEAN   STD   MEAN  STD
                 ------------------------------------------------------------------------------------------------
FED REP GERMANY
BROTJACKLRIEGEL
GE200010lQ08     81     122    8   18   22   28   35   40   44   48   56   67   72   84  105  41.0   18.6  36.6 1.657

                             POLLUTANT - 11101 - SUSPENDED PARTICULAT
                             METHOD - 76 - HI-VOL 15M CUT  GRAVIMETRIC
                             UNITS -  01 - UG/CU METER (25 C)
                             SAMPLING INTERVAL - 7 - 24 HOUR DATA
                                                                                        ARITHMETIC    GEOMETRIC
                 YEAR   NUM  MIN   10   20   30   40   50   60   70   80   90   95   99  MAX  MEAN   STD   MEAN  STD
                 ------------------------------------------------------------------------------------------------
                 81     275    2   14   19   23   27   33   40   45   54   67   72   84  106  36.3   20.1  30.4 1.904

                             POLLUTANT - 11101 - SUSPENDED  PARTICULA
                             METHOD - 75 - HI-VOL 20M CUT  GRAVIMETRIC
                             UNITS -  01 - UG/CU METER (25 C)
                             SAMPLING INTERVAL - 7 - 24 HOUR DATA
                                                                                        ARITHMETIC    GEOMETRIC
                 YEAR   NUM  MIN   10   20   30   40   50   60   70   80   90   95   99  MAX  MEAN   STD   MEAN  STD
                 ------------------------------------------------------------------------------------------------
DEUSELBACH
GE300010lQ08     81     121    6   18   21   25   29   32   36   41   49   72   85  151  162  39.6   26.8  33.5 1.757

                             POLLUTANT - 11101 - SUSPENDED PARTICULAT
                             METHOD - 76 - HI-VOL 15M CUT  GRAVIMETRIC
                             UNITS -  01 - UG/CU METER (25 C)
                             SAMPLING INTERVAL - 7 - 24 HOUR DATA
                                                                                        ARITHMETIC    GEOMETRIC
                 YEAR   NUM  MIN   10   20   30   40   50   60   70   80   90   95   99  MAX  MEAN   STD   MEAN  STD
                 ------------------------------------------------------------------------------------------------
                 81     362    6   15   19   22   26   30   36   41   53   69   85  139  162  37.2   25.1  31.0 1.823

                             POLLUTANT - 11101 - SUSPENDED  PARTICULA
                             METHOD - 75 - HI-VOL 20M CUT  GRAVIMETRIC
                             UNITS -  01 - UG/CU METER (25 C)
                             SAMPLING INTERVAL - 7 - 24 HOUR DATA
                                                                                        ARITHMETIC    GEOMETRIC
                 YEAR   NUM  MIN   10   20   30   40   50   60   70   80   90   95   99  MAX  MEAN   STD   MEAN  STD
                 ------------------------------------------------------------------------------------------------
LANGENBRUGGE
GE600010lQ08     81     118   15   21   27   31   34   40   47   64   74   99  122  142  147  51.7   31.9  43.7 1.780

                             POLLUTANT - 11101 - SUSPENDED PARTICULAT
                             METHOD - 76 - HI-VOL 15M CUT  GRAVIMETRIC
                             UNITS -  01 - UG/CU METER (25 C)
                             SAMPLING INTERVAL - 7 - 24 HOUR DATA
                                                                                        ARITHMETIC    GEOMETRIC
                 YEAR   NUM  MIN   10   20   30   40   50   60   70   80   90   95   99  MAX  MEAN   STD   MEAN  STD
                 ------------------------------------------------------------------------------------------------
                 81     347    5   18   22   28   33   39   47   63   80  109  125  162  240  52.4   37.2  41.7 1.980
```

POLLUTANT - 11101 - SUSPENDED PARTICULA
METHOD - 75 - HI-VOL 20M CUT GRAVIMETRIC
UNITS - 01 - UG/CU METER (25 C)
SAMPLING INTERVAL - 7 - 24 HOUR DATA

	YEAR	NUM	MIN	10	20	30	40	50	60	70	80	90	95	99	MAX	ARITHMETIC MEAN	ARITHMETIC STD	GEOMETRIC MEAN	GEOMETRIC STD
FED REP GERMANY SCHAUINSLAND GE9000101Q08	81	122	6	13	15	20	24	30	35	41	52	66	82	161	164	36.2	26.8	28.9	1.963

POLLUTANT - 11101 - SUSPENDED PARTICULAT
METHOD - 76 - HI-VOL 15M CUT GRAVIMETRIC
UNITS - 01 - UG/CU METER (25 C)
SAMPLING INTERVAL - 7 - 24 HOUR DATA

	YEAR	NUM	MIN	10	20	30	40	50	60	70	80	90	95	99	MAX	ARITHMETIC MEAN	ARITHMETIC STD	GEOMETRIC MEAN	GEOMETRIC STD
	81	354	1	6	8	12	15	20	24	31	40	58	73	96	163	26.6	23.8	18.5	2.442

POLLUTANT - 11101 - SUSPENDED PARTICULA
METHOD - 75 - HI-VOL 20M CUT GRAVIMETRIC
UNITS - 01 - UG/CU METER (25 C)
SAMPLING INTERVAL - 7 - 24 HOUR DATA

	YEAR	NUM	MIN	10	20	30	40	50	60	70	80	90	95	99	MAX	ARITHMETIC MEAN	ARITHMETIC STD	GEOMETRIC MEAN	GEOMETRIC STD
GE9500101Q08	81	28	21	24	31	34	38	41	47	53	59	71	107	127	127	49.0	24.5	44.4	1.547
HUNGARY KECSKEMET HU7000101Q08	81	45	18	29	43	51	57	60	66	70	78	97	102	119	119	61.8	22.8	57.2	1.522
INDONESIA CILENUG ID2000101Q08	81	24	41	54	63	66	71	77	81	86	92	117	118	126	126	81.0	22.5	78.1	1.319
JAKARTA ID6000101Q08	81	54	11	72	80	88	99	107	115	135	148	167	175	209	239	115.1	40.8	106.7	1.556
JAKARTA ID6000102Q08	81	47	71	200	227	253	267	300	349	369	407	438	485	969	969	326.9	136.7	303.6	1.483
JAKARTA ID6000103Q08	81	55	155	242	284	328	354	394	436	480	519	597	607	617	705	407.9	130.2	386.4	1.406
JAKARTA ID6000104Q08	81	59	188	357	382	417	427	459	479	500	551	655	3706	4155	4719	755.2	1003.8	537.0	1.912
JAKARTA ID6000105Q08	81	52	58	80	92	108	114	125	139	157	175	201	253	291	393	142.1	62.5	131.2	1.481
JAKARTA ID6000106Q08	81	36	5	50	57	66	73	78	93	96	106	117	135	396	396	91.1	61.1	76.6	1.954
ID7000101Q08	81	28	2	3	7	16	22	30	33	42	58	96	227	908	908	74.1	172.0	25.7	4.185
MANADO ID7300107Q08	81	40	30	33	36	40	48	53	60	70	96	139	314	545	545	90.4	112.1	64.2	2.027

POLLUTANT - 11101 - SUSPENDED PARTICULA
METHOD - 75 - HI-VOL 20M CUT GRAVIMETRIC
UNITS - 01 - UG/CU METER (25 C)
SAMPLING INTERVAL - 7 - 24 HOUR DATA

	YEAR	NUM	MIN	10	20	30	40	50	60	70	80	90	95	99	MAX	ARITHMETIC MEAN	ARITHMETIC STD	GEOMETRIC MEAN	GEOMETRIC STD
INDONESIA TANGERANG ID9000101Q08	81	35	39	74	92	104	108	127	141	167	181	247	254	308	308	141.0	64.8	126.5	1.635
NETHERLANDS AMSTERDAM NL1000101Q08	81	72	7	13	18	21	25	33	39	49	73	95	131	158	168	46.5	38.2	34.8	2.141
WITTEVEEN NL8000101Q08	81	445	7	17	23	28	32	35	41	51	65	91	113	148	207	46.3	31.5	38.1	1.850
ROMANIA SEMENIC RO1000101Q08	81	133	6	14	21	26	29	35	41	50	61	76	88	118	125	41.4	24.5	34.7	1.846
FUNDATA RO2000101Q08	81	12	12	12	14	16	17	20	21	23	33	39	39	41	41	23.2	9.9	21.4	1.513
TURIA RO6000101Q08	81	138	10	19	25	30	33	38	43	52	58	68	70	82	93	41.4	17.9	37.2	1.620
RARAU RO7000101Q08	81	111	4	8	9	11	17	22	27	30	39	50	55	87	92	25.7	17.9	20.2	2.053
STINA DE VALE RO8000101Q08	81	42	19	25	27	34	37	39	42	50	58	63	68	76	76	42.9	14.9	40.3	1.432
PARING RO9000101Q08	81	36	3	10	14	15	19	20	22	28	40	62	69	73	73	27.2	19.2	21.7	2.025
SWITZERLAND JUNGFRAUJOCH SZ4000101Q08	81	90	1	2	3	4	5	6	7	8	9	12	13	36	36	6.8	5.5	5.4	1.931
PAYERNE SZ7000101Q08	81	175	7	12	18	21	24	30	35	41	46	63	73	120	120	34.2	21.2	28.8	1.827
TUNISIA THALA TS8000101Q08	81	37	LD	10	13	21	26	32	42	54	71	96	113	161	161	45.1	36.6	30.4	2.935
ZAMBIA LUANGWA ZA6000101Q08	81	19	10	10	12	16	24	39	39	44	48	63	71	73	73	34.9	20.4	28.8	1.966